

Result No.	Score	Query	Match	Length	DB	ID	Description
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2	589	100.0	105	3	AAB10453	Aay66745 Membrane-	
3	589	100.0	105	4	AAB70148	Aab10453 A Human T	
4	589	100.0	105	4	AAB68427	Aab0148 Human G P	
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6	589	100.0	105	4	AAB51096	Aau12406 Human PRO	
7	589	100.0	105	4	AAB65268	Aab51096 Human ang	
8	589	100.0	105	4	AAB48175	Aab65268 Human PRO	
9	589	100.0	105	4	AAB48067	Aab48175 Human PRO	
10	589	100.0	105	5	AAM5073	Aab48067 Human ext	
11	589	100.0	105	5	AAU31674	Aam5073 Endocrine	
12	589	100.0	105	5	ABB84102	Aau31674 Human PRO	
13	589	100.0	105	5	AAO15527	Aabb84102 Human PRO	
14	589	100.0	105	5	ABB06308	Aao15527 Human phy	
15	589	100.0	105	5	AAB24382	Aab06308 Human G P	
16	589	100.0	105	5	ABB9508	Aae24382 Human pro	
17	589	100.0	105	6	ABU58083	Aab9508 Human ang	
18	589	100.0	105	6	ABU59161	Abu58083 Human PRO	
19	589	100.0	105	6	ABU2673	Abu59161 Novel hum	
20	589	100.0	105	6	ABU17850	Abu2673 Human sec	
21	589	100.0	105	6	ABU60592	Abo17850 Novel hum	
22	589	100.0	105	6	ABU0821	Abu60592 Human sec	
23	589	100.0	105	6	ABO33787	Abo0821 Human PRO	
24	589	100.0	105	6	ABU13974	Abo33787 Novel hum	
25	589	100.0	105	6	ABU08800	Abu13974 Human PRO	

## ALIGNMENTS

RESULT 1  
ID AAY66745 standard; protein; 105 AA.

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AC

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DT 05-APR-2000 (first entry)

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DE Membrane-bound protein PRO1186.

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KW Membrane-bound polypeptide; PRO polypeptide; LDL receptor; TIE ligand; pharmaceutical; receptor immunoadhesin; gene mapping.

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OS Homo sapiens.

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PN WO9963088-A2.

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PD 09-DEC-1999.

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PF 02-JUN-1999;

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99WO-US012252.

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PR 02-JUN-1998;

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PR 02-JUN-1998;

PR 03-JUN-1998;

PR 04-JUN-1998;

PR 04-JUN-1

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 PR 17-AUG-1998; 98US-0100034P.  
 PR 12-JAN-1999; 99US-0115565P.  
 XX (GBTM ) GENENTECH INC.

PA PT Membrane-bound proteins and related nucleotide sequences.

XX PI Baker K, Chen J, Goddard A, Gurney AL, Smith V, Watanabe CK; Wood WI, Yuan J; XX DR WPI; 2000-072883/06. N-PSDB; AA265091.

XX PT Membrane-bound proteins and related nucleotide sequences.

XX PS DR WPI; 2000-072883/06.

XX CC Claim 12: Fig 266: 822pp; English.

CC The invention provides membrane-bound PRO polypeptides and poly nucleotides encoding them. The PRO sequences of the invention were identified based on extracellular domain homology screening. The PRO sequences have homology with proteins including LDL receptors, TIE ligands and various enzymes. The membrane-bound proteins and receptor molecules are useful pharmaceutical and diagnostic agents. Receptor immunoadhesins, for instance, can be used as therapeutic agents to block receptor-ligand interactions. The membrane-bound proteins can also be employed for screening of potential peptide or small molecule inhibitors of the relevant receptor/ligand interaction. The PRO encoding sequences are useful as hybridization probes in chromosome and gene mapping and in the generation of antisense RNA and DNA. PRO nucleic acid sequences will also be useful for the preparation of PRO polypeptides, especially by recombinant techniques

XX SQ Sequence 105 AA;

Query Match 100.0%; Score 589; DB 3; Length 105;  
 Best Local Similarity 100.0%; Pred. No. 3.3e-54;  
 Matches 105; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 MRGATRVSIMLLVYSDCAVITGAERDVQGAGTCATSLWRLRMRMCTPLGRGEEC 60  
 Db 1 MRGATRVSIMLLVYSDCAVITGAERDVQGAGTCATSLWRLRMRMCTPLGRGEEC 60

Qy 61 HPGSHKVPFFRKHHTCPCLPNLICSRFPDGRYRCMSMDLKNM 105  
 XX ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||  
 Db 61 HPGSHKVPFFRKHHTCPCLPNLICSRFPDGRYRCMSMDLKNM 105  
 XX ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||

## RESULT 2

AAB18453  
 ID AAB18453 standard; protein; 105 AA.

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AAB18453;

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15-JAN-2001 (first entry)

A human TANGO 266 polypeptide.

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TANGO 266; TANGO 261; TANGO 262; TANGO 267;  
 cellular proliferation; cellular differentiation; cellular adhesion;  
 von Willebrand factor-associated disorder; cell trafficking; cancer;  
 hematopoietic associated disease; teleotaxis; pulmonary congestion;  
 oedema; emphysema; chronic bronchitis; bronchial asthma; bronchiectasis;  
 intestinal disorder; spleen associated disease; renal disorder;  
 cardiovascular disorder; ischemic heart disease; hydrocephalus;  
 brain herniation; iatrogenic disease; inflammation; meningitis;  
 Alzheimer's Disease; cerebral toxoplasmosis; Parkinson's disease;  
 multiple sclerosis; hydrocephalus; encephalitis; hepatic disorder.

XX

Homo sapiens.

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Key Location/Qualifiers

PT 1..19

PT /note= "signal sequence"

PT 20..106

PT /note= "mature protein"

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WO200052022-A1.

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08-SEP-2000.

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PP 01-MAR-2000; 2000WO-US005226.

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PR 01-MAR-1999; 99US3-0122458P.

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PA (MILL-) MILLENNIUM PHARM INC.

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Barnes TM, Holtzman DA, Sharp JD, Fraser CC;

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WPI; 2000-579269/54.

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DR N-PSDB; AAA7155.

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Novel human and murine secreted proteins designated TANGO 216, 261, 262,

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266 and 267 useful as modulating agents of cellular processes, e.g. for

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treating cancer.

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Claim 8: Fig 14: 175pp; English.

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PS The present sequence represents a human TANGO 266 polypeptide. The

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specification also describes TANGO 262, TANGO 216, TANGO 261, and TANGO 267. The TANGO polypeptides can be used to modulate cellular proliferation, modulate cellular differentiation and/or modulate cellular adhesion. The proteins can be used to treat any von Willebrand factor-associated disorder, regulate extracellular matrix structure, cellular adhesion, and cell trafficking and/or migration, modulate cellular interactions, modulate cell adhesion in proliferation, differentiation, and/or function of cells that appear in the bone marrow, and leukocytes, treat bone marrow, blood and hematopoietic associated diseases and disorders, atelectasis, pulmonary congestion or edema, emphysema, chronic bronchitis, bronchial asthma and bronchiectasis, intestinal disorders, spleen associated as ischemic heart disease, modulates renal disorders, treat cardiovascular disorders such as ischaemic heart disease, modulates the proliferation, differentiation, and/or function of bone and cartilage cells and to treat bone and/or cartilage associated diseases or disorder. They may also be used to treat

CC disorders associated with the ovaries, cerebral oedema, hydrocephalus, brain herniations, iatrogenic disease, inflammatory, bacterial and viral meningitis, Alzheimer's Disease, cerebral toxoplasmosis, Parkinson's disease, multiple sclerosis, brain cancers, hydrocephalus and encephalitis, and treat hepatic disorders

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SQ Sequence 105 AA;

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Query Match 100.0%; Score 589; DB 3; Length 105;

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Best Local Similarity 100.0%; Pred. No. 3 3e-54;

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AC 0; Mismatches 0; Indels 0; Gaps 0;

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DB MGRATRVSIMLIVTVDCAVITGACERDVQGAGTCACISIWLGRGLRMCTPLGREGREC 60

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DB HPGSHKVPFFRKHHTCPCLPNLICSRFPDGRYRCMSMDLKNM 105

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QY 61 HPGSHKVPFFRKHHTCPCLPNLICSRFPDGRYRCMSMDLKNM 105

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DB HPGSHKVPFFRKHHTCPCLPNLICSRFPDGRYRCMSMDLKNM 105

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QY 61 HPGSHKVPFFRKHHTCPCLPNLICSRFPDGRYRCMSMDLKNM 105

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DB HPGSHKVPFFRKHHTCPCLPNLICSRFPDGRYRCMSMDLKNM 105

XX

QY 61 HPGSHKVPFFRKHHTCPCLPNLICSRFPDGRYRCMSMDLKNM 105

XX

DB HPGSHKVPFFRKHHTCPCLPNLICSRFPDGRYRCMSMDLKNM 105

XX

QY 61 HPGSHKVPFFRKHHTCPCLPNLICSRFPDGRYRCMSMDLKNM 105

XX

DB HPGSHKVPFFRKHHTCPCLPNLICSRFPDGRYRCMSMDLKNM 105

XX

QY 61 HPGSHKVPFFRKHHTCPCLPNLICSRFPDGRYRCMSMDLKNM 105

XX

DB HPGSHKVPFFRKHHTCPCLPNLICSRFPDGRYRCMSMDLKNM 105

XX

QY 61 HPGSHKVPFFRKHHTCPCLPNLICSRFPDGRYRCMSMDLKNM 105

XX

DB HPGSHKVPFFRKHHTCPCLPNLICSRFPDGRYRCMSMDLKNM 105

XX

QY 61 HPGSHKVPFFRKHHTCPCLPNLICSRFPDGRYRCMSMDLKNM 105

XX

DB HPGSHKVPFFRKHHTCPCLPNLICSRFPDGRYRCMSMDLKNM 105

XX

QY 61 HPGSHKVPFFRKHHTCPCLPNLICSRFPDGRYRCMSMDLKNM 105

XX

DB HPGSHKVPFFRKHHTCPCLPNLICSRFPDGRYRCMSMDLKNM 105

XX

QY 61 HPGSHKVPFFRKHHTCPCLPNLICSRFPDGRYRCMSMDLKNM 105

XX

DB HPGSHKVPFFRKHHTCPCLPNLICSRFPDGRYRCMSMDLKNM 105

XX

QY 61 HPGSHKVPFFRKHHTCPCLPNLICSRFPDGRYRCMSMDLKNM 105

XX

DB HPGSHKVPFFRKHHTCPCLPNLICSRFPDGRYRCMSMDLKNM 105

XX

QY 61 HPGSHKVPFFRKHHTCPCLPNLICSRFPDGRYRCMSMDLKNM 105

XX

DB HPGSHKVPFFRKHHTCPCLPNLICSRFPDGRYRCMSMDLKNM 105

XX

QY 61 HPGSHKVPFFRKHHTCPCLPNLICSRFPDGRYRCMSMDLKNM 105

XX

DB HPGSHKVPFFRKHHTCPCLPNLICSRFPDGRYRCMSMDLKNM 105

XX

QY 61 HPGSHKVPFFRKHHTCPCLPNLICSRFPDGRYRCMSMDLKNM 105

XX

DB HPGSHKVPFFRKHHTCPCLPNLICSRFPDGRYRCMSMDLKNM 105

XX

QY 61 HPGSHKVPFFRKHHTCPCLPNLIC

RESULT 4		RESULT 5	
AAB68427	AAB68427 standard; protein; 105 AA.	AAU12406	AAU12406 standard; protein; 105 AA.
XX	XX	XX	XX
AC	AC	AC	AC
XX	XX	XX	XX
DT	23-JUL-2001 (first entry)	DT	24-OCT-2001 (first entry)
DE	Amino acid sequence of a human Zven2 polypeptide.	DE	Human PRO1186 polypeptide sequence.
XX	Zven1; 3p21.1; 3p14.3; Zven2; small cell lung cancer; wound healing; antitumor; antiinflammatory; necrosis; tissue growth; digestive enzyme; cellular differentiation; gastrointestinal cell contractility; gastrointestinal motility; inflammation; hypermotility; diarrhoea; Crohn's disease.	XX	Human secretory and transmembrane; PRO; mammalian; cancer; lung; breast; prostate; cervical; tumour necrosis factor-alpha; TNF-alpha; cartilage; ear; proliferation; glucose; free fatty acid; skeletal muscle; adipocyte; A-peptide; factor VIIA; gene therapy.
XX	Homo sapiens.	OS	Homo sapiens.
XX	WO200136465-A2.	OS	XX
PN	WO200136465-A2.	PN	WO200140466-A2.
XX	XX	XX	XX
PD	25-MAY-2001.	PD	07-JUN-2001.
XX	XX	XX	XX
PF	14-NOV-2000; 20000W0-US031278.	PF	01-DEC-2000; 20000W0-US032678.
XX	XX	XX	XX
PR	16-NOV-1999; 99US-00442164.	PR	01-DEC-1999; 99WO-US028301.
PR	25-FEB-2000; 20000US-00511879.	PR	01-DEC-1999; 99WO-US028334.
PR	19-APR-2000; 20000US-00552203.	PR	02-DEC-1999; 99WO-US028351.
PR	07-JUN-2000; 20000US-0021033227.	PR	02-DEC-1999; 99WO-US028354.
XX	XX	PR	02-DEC-1999; 99WO-US028365.
PA	(ZYMO ) ZYMOGENETICS INC.	PR	09-DEC-1999; 99US-0170262P.
PI	Sheppard PO, Bishop PD, Whitmore TE, Thompson PP;	PR	16-DEC-1999; 99WO-US030095.
XX	WPI; 2001-355611/37.	PR	20-DEC-1999; 99WO-US030999.
DR	N-PSDB; AAF85427.	PR	30-DEC-1999; 99WO-US031243.
XX	XX	PR	30-DEC-1999; 99WO-US031274.
PT	Novel isolated Zven polypeptide useful for inhibiting proliferation of tumor cells, for treating small cell cancer of lung, to promote wound healing, and for treating Crohn's disease and diarrhea.	PR	05-JAN-2000; 20000W0-US00219.
PT	Claim 27; Page 4; 98pp; English.	PR	06-JAN-2000; 20000W0-US00276.
XX	XX	PR	11-FEB-2000; 20000W0-US03376.
PS	The present sequence represents a human Zven2 polypeptide. The specification also describes Zven1. The Zven1 gene is present on chromosome 3p21.1-3p14.3. The specification also describes Zven2. Zven polypeptides and polypeptides are useful in veterinary and human therapeutics, for treating small cell cancer of the lung, to promote wound healing, to prevent or to treat an adverse reaction of the skin to a skin-sensitizing agent or a skin-irritating agent, to stimulate the immune system of an immunocompromised individual, as antitumour agents, as antiinflammatory agents, as agents to regulate regeneration or remodeling of tissue, as agents to modulate necrosis or tissue growth, developmental arrest, to inhibit proliferation of tumour cells, cellular differentiation and necrosis, to treat disorders associated with gastrointestinal cell contractility, secretion of digestive enzymes and acids, gastrointestinal motility, recruitment of digestive enzymes, inflammation, and conditions associated with hypermotility such as diarrhoea and Crohn's disease.	PR	18-FEB-2000; 20000W0-US004312.
XX	Sequence 105 AA;	PR	22-FEB-2000; 20000W0-US004414.
CC	CC	PR	24-FEB-2000; 20000W0-US004914.
CC	CC	PR	24-FEB-2000; 20000W0-US005004.
CC	CC	PR	01-MAR-2000; 20000W0-US005001.
CC	CC	PR	02-MAR-2000; 20000W0-US005841.
CC	CC	PR	03-MAR-2000; 20000W0-US018720P.
CC	CC	PR	10-MAR-2000; 20000W0-US005319.
CC	CC	PR	15-MAR-2000; 20000W0-US006884.
CC	CC	PR	20-MAR-2000; 20000W0-US007377.
CC	CC	PR	21-MAR-2000; 20000W0-US007332.
CC	CC	PR	30-MAR-2000; 20000W0-US008339.
CC	CC	PR	17-MAY-2000; 20000W0-US014042.
CC	CC	PR	22-MAY-2000; 20000W0-US014042.
CC	CC	PR	23-MAY-2000; 20000W0-US014911.
CC	CC	PR	02-JUN-2000; 20000W0-US015244.
CC	CC	PR	05-JUN-2000; 20000US-0209812P.
CC	CC	PR	28-JUL-2000; 20000W0-US020101.
XX	XX	PR	11-AUG-2000; 20000W0-US023521.
SQ	SQ	PR	23-AUG-2000; 20000W0-US023522.



Query Match 100.0%; Score 589; DB 4; Length 105;  
 Best Local Similarity 100.0%; Pred. No. 3.3e-5e-1;  
 Matches 105; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 XX

Qy 1 MRGATRVSIMLLVVTVSDCAVITGACERPVQGAGTCCCAISLWLRGLRMCCTPLGREGEEC 60  
 Db 1 MRGATRVSIMLLVVTVSDCAVITGACERPVQGAGTCCCAISLWLRGLRMCCTPLGREGEEC 60

Qy 61 HPGSHKVPFRKRKHCTCPLPNLCSRDPGYRCMSDLRNINF 105  
 Db 61 HPGSHKVPFRKRKHCTCPLPNLCSRDPGYRCMSDLRNINF 105

RESULT 7  
 AAB65268 standard; protein; 105 AA.  
 ID AAB65268  
 XX  
 AC AAB65268;  
 XX  
 DT 02-APR-2001 (first entry)  
 XX  
 DE Human PRO1186 (UNQ600) protein sequence SEQ ID NO:371.  
 XX  
 KW Human; secreted and transmembrane protein; PRO; cytosatic; cell death;  
 KW cancer; chromosomal mapping; gene mapping; tissue typing;  
 KW diagnostic assay.  
 XX  
 OS Homo sapiens.  
 XX  
 PN WO2000073454-A1.  
 XX  
 PD 07-DEC-2000.  
 XX  
 PF 30-MAR-2000; 2000WO-US008439.  
 XX  
 PR 02-JUN-1999; 99WO-US012252.  
 PR 02-JUN-1999; 99US-0141037.  
 PR 07-JUL-1999; 99US-0143048P.  
 PR 20-JUL-1999; 99US-0144588P.  
 PR 26-JUL-1999; 99US-0145698P.  
 PR 28-JUL-1999; 99US-0146222P.  
 PR 17-AUG-1999; 99US-0149366P.  
 PR 15-SEP-1999; 99WO-US021096.  
 PR 08-OCT-1999; 99US-0158663P.  
 PR 30-NOV-1999; 99WO-US028313.  
 PR 01-DEC-1999; 99WO-US028301.  
 PR 16-DEC-1999; 99WO-US030956.  
 PR 20-DEC-1999; 99WO-US030911.  
 PR 05-JAN-2000; 2000WO-US000219.  
 PR 06-JAN-2000; 2000WO-US000376.  
 PR 11-FEB-2000; 2000WO-US003565.  
 PR 18-FEB-2000; 2000WO-US004341.  
 PR 22-FEB-2000; 2000WO-US004414.  
 PR 24-FEB-2000; 2000WO-US004914.  
 PR 24-FEB-2000; 2000WO-US005004.  
 PR 02-MAR-2000; 2000WO-US005841.  
 PR 15-MAR-2000; 2000WO-US006884.  
 PR 20-MAR-2000; 2000WO-US007377.  
 XX  
 PA (GETH ) GENENTECH INC.

XX  
 PI Ashkenazi AJ, Baker KP, Botstein D, Denoyers L, Eaton DL,  
 PI Ferrara N, Fong S, Gerber H, Gerritsen ME, Godowski PJ;  
 PI Grimaldi CJ, Gurney AL, KJavon IU, Napier MA, Pan J,  
 PI Roy MA, Stewart TA, Tumas D, Watanabe CK, Williams PM,  
 XX  
 DR WPI; 2001-032160/04.  
 XX  
 XX  
 PT PRO polynucleotides used to produce polypeptides used to target bioactive

PT molecules such as toxins, radiolabels or antibodies, to specific cells,  
 PT to cause targeted cell death.  
 XX  
 PS Claim 12; Fig 266; 915pp; English.

CC The present invention describes human secreted and transmembrane PRO  
 CC proteins. The PRO proteins have cytosatic activity. The PRO proteins can  
 CC be used for targeted delivery of bioactive molecules, such as toxins,  
 CC radiolabels or antibodies, that cause cell death. PRO nucleotide  
 CC sequences, and their fragments, can be used as hybridization probes, in  
 CC chromosomal and gene mapping, and in the generation of anti-sense RNA and  
 CC DNA. They may also be used to produce transgenic animals which are used  
 CC to develop and screen therapeutically useful reagents. The PRO nucleotide  
 CC and protein sequence can be used for tissue typing and in treating  
 CC cancer. Anti-PRO antibodies can be used in diagnostic assays. AAF44270 to  
 CC AAF44470 represent PCR primers and hybridisation probes used in the  
 CC isolation of human PRO sequences. AAF44087 to AAF44269 and AAB65154 to  
 CC AAB65300 represent human PRO polynucleotide and protein sequences given  
 CC in the exemplification of the present invention  
 XX

SQ Sequence 105 AA;  
 XX

Query Match 100.0%; Score 589; DB 4; Length 105;  
 Best Local Similarity 100.0%; Pred. No. 3.3e-54;  
 Matches 105; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 MRGATRVSIMLLVVTVSDCAVITGACERPVQGAGTCCCAISLWLRGLRMCCTPLGREGEEC 60  
 Db 1 MRGATRVSIMLLVVTVSDCAVITGACERPVQGAGTCCCAISLWLRGLRMCCTPLGREGEEC 60

Qy 61 HPGSHKVPFRKRKHCTCPLPNLCSRDPGYRCMSDLRNINF 105  
 Db 61 HPGSHKVPFRKRKHCTCPLPNLCSRDPGYRCMSDLRNINF 105

RESULT 8  
 AAB48175 standard; protein; 105 AA.  
 XX  
 ID AAB48175  
 XX  
 AC AAB48175;  
 XX  
 DT 02-APR-2001 (first entry)  
 XX  
 DE Human PRO1186 polypeptide.  
 XX  
 KW PRO1186; PRO184; neoplastic; cell growth; tumour; cancer;  
 KW ovarian; renal; colorectal; uterine; prostate; lung; melanoma;  
 KW central nervous system; leukemia; antitumor; cytostatic.  
 XX  
 OS Homo sapiens.  
 XX  
 FH Key Location/Qualifiers  
 FT Peptide 1..19  
 FT /note= "signal sequence"  
 FT Protein 20..105  
 FT /note= "mature protein"  
 FT Modified-site 33..39  
 FT /note= "N-myristoylation site"  
 FT Modified-site 35..41  
 FT /note= "N-myristoylation site"  
 FT Modified-site 46..52  
 FT /note= "N-myristoylation site"  
 FT Modified-site 88..95  
 FT /note= "tyrosine kinase phosphorylation site"  
 XX  
 PR WO20007327-A1.  
 XX  
 PD 14-DEC-2000.  
 XX  
 PR 24-FEB-2000; 2000WO-US004914.  
 XX  
 PR 02-JUN-1999; 99WO-US012252.  
 XX  
 PR 02-JUN-1999; 99US-0141037.  
 XX  
 PR 07-JUL-1999; 99US-0143048P.  
 XX  
 PR 20-JUL-1999; 99US-0144588P.  
 XX  
 PR 26-JUL-1999; 99US-0145698P.  
 XX  
 PR 28-JUL-1999; 99US-0146222P.  
 XX  
 PR 17-AUG-1999; 99US-0149366P.  
 XX  
 PR 15-SEP-1999; 99WO-US021096.  
 XX  
 PR 08-OCT-1999; 99US-0158663P.  
 XX  
 PR 30-NOV-1999; 99WO-US028313.  
 XX  
 PR 01-DEC-1999; 99WO-US028301.  
 XX  
 PR 16-DEC-1999; 99WO-US030956.  
 XX  
 PR 20-DEC-1999; 99WO-US030911.  
 XX  
 PR 05-JAN-2000; 2000WO-US000219.  
 XX  
 PR 06-JAN-2000; 2000WO-US000376.  
 XX  
 PR 11-FEB-2000; 2000WO-US003565.  
 XX  
 PR 18-FEB-2000; 2000WO-US004341.  
 XX  
 PR 22-FEB-2000; 2000WO-US004414.  
 XX  
 PR 24-FEB-2000; 2000WO-US004914.  
 XX  
 PR 02-MAR-2000; 2000WO-US005004.  
 XX  
 PR 15-MAR-2000; 2000WO-US006884.  
 XX  
 PR 20-MAR-2000; 2000WO-US007377.  
 XX  
 PA (GETH ) GENENTECH INC.

XX  
 PI Ashkenazi AJ, Baker KP, Botstein D, Denoyers L, Eaton DL,  
 PI Ferrara N, Fong S, Gerber H, Gerritsen ME, Godowski PJ;  
 PI Grimaldi CJ, Gurney AL, KJavon IU, Napier MA, Pan J,  
 PI Roy MA, Stewart TA, Tumas D, Watanabe CK, Williams PM,  
 XX  
 DR WPI; 2001-032160/04.  
 XX  
 XX  
 PT PRO polynucleotides used to produce polypeptides used to target bioactive

PR	05-JAN-2000;	2000WO-US000219.	XX	WPI; 2001-025021/03.
XX	(GETH ) GENENTECH INC.		DR	N-PDB; AAC85303.
PI	Ashkenazi AJ, Hillian KJ, Napier MA, Watanabe CK, Wood WI;		XX	New human extracellular signaling nucleic acids and polypeptides useful for diagnosing, treating and preventing infections and gastrointestinal, neurological, reproductive, and autoimmune/inflammatory disorders.
XX	WPI; 2001-071078/08.		PT	
DR	N-PSDB; AAC84469.		PT	
XX	Compositions for inhibiting neoplastic cell growth and treating tumor, a cancer, comprises novel PRO1186 or PRO184 polypeptides or its agonist.		PT	Claim 1: Page 89; 114pp; English.
PT	Compositions for inhibiting neoplastic cell growth and treating tumor, a cancer, comprises novel PRO1186 or PRO184 polypeptides or its agonist.		XX	The invention provides human extracellular signaling molecules (EXCS) and polynucleotides which identify and encode EXCS. EXCS can be expressed by standard recombinant methodology. The amino acid and nucleic acid sequences of EXCS are useful for diagnosing, treating and preventing infections and gastrointestinal (peptic ulcer, dysphagia, pancreatic, neurological (e.g. epilepsy, ischemic cerebrovascular disease, stroke), reproductive (infertility, ovulatory defects, endometriosis), autoimmune (acinic keratosis, acquired immunodeficiency syndrome (AIDS), Addison's disease), and cell proliferative disorders including cancers (of the breast, adrenal gland, bone). They may also be used to treat fatal familial insomnia, nutritional and metabolic diseases of the nervous system, myopathies, mental disorders (anxiety, schizophrenia, mood), as well as infections caused by parasites (malaria, leishmania, trypanosoma), viral (adenovirus, coronavirus, flavivirus), bacterial (e.g. pneumococcus, strephylococcus, bacillus), and fungal (aspergillus, blastomycoses, dermatophytes) agents. The nucleic acids, polypeptides, antagonists, agonists, pharmaceutical compositions, and antibodies may also be used for treating or preventing disorders associated with EXCS. EXCS polynucleotides may also be used to detect and quantify gene expression in biopsied tissues in which expression of EXCS may be correlated with the disease, to determine presence or excess expression of EXCS, to detect the presence of associated disorders, as targets in microarray, to generate hybridization probes, and to detect differences in gene sequences among normal, carrier or affected individuals. Antibodies may also be used in diagnosing disorders, in monitoring patients being treated with EXCS agonists, antagonists or inhibitors. Sequences AAB48057 -B48082 represent the EXCS of the invention
PS	Claim 31; Fig 2; 104pp; English.		XX	
XX	The invention provides PRO1186 and PRO184 polypeptides that can be used for the inhibition of neoplastic cell growth and for treating tumours. The PRO polypeptides can be expressed by standard recombinant methodology. The PRO polypeptides or their agonists are useful for inhibition of neoplastic cell growth and for treating tumours, cancers such as breast, ovarian, renal, colorectal, uterine, prostate, lung, bladder or central nervous system cancers or melanoma and leukemia. The present sequence represents the human PRO1186 polypeptide (encoding cDNA clone ID: DNA60622-1516).		CC	
XX	Sequence 105 AA;		CC	
Query Match	100.0%;	Score 589; DB 4; Length 105;	CC	
Best Local Similarity	100.0%;	Pred. No. 3.3e-54;	CC	
Matches	105;	Conservative 0; Mismatches 0; Indels 0; Gaps 0;	CC	
Qy	1	MRGATRVSIMLLTVTSDCAVITGACERDYQCGACTCCATSLNWLGLRMCTPLGREGBC 60	Db	1
Db	1	MRGATRVSIMLLTVTSDCAVITGACERDYQCGACTCCATSLNWLGLRMCTPLGREGBC 60	Qy	61
Qy	61	HPGSHKVPFRKRKHTCPCLPNLICSRPPDGRYRCMSMDLKNINF 105	Db	61
Db	61	HPGSHKVPFRKRKHTCPCLPNLICSRPPDGRYRCMSMDLKNINF 105	Qy	61
RESULT 9			Db	61
AAB48067			CC	
ID	AAB48067	standard; protein; 105 AA.	XX	Sequence 105 AA;
XX			XX	Query Match 100.0%; Score 589; DB 4; Length 105;
AC	AAB48067;		XX	Best Local Similarity 100.0%; Pred. No. 3.3e-54;
XX			XX	Matches 105; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
DT	19-MAR-2001	(first entry)	XX	
XX	Human extracellular signaling molecule (EXCS)	(ID 2006548CD1).	DB	1 MRGATRVSIMLLTVTSDCAVITGACERDYQCGACTCCATSLNWLGLRMCTPLGREGBC 60
DB	1		XX	1 MRGATRVSIMLLTVTSDCAVITGACERDYQCGACTCCATSLNWLGLRMCTPLGREGBC 60
XX	Extracellular signaling molecule; EXCS; anti-inflammatory; human; immunosuppressive; cytostatic; neuroprotective; gastrointestinal; viricide; antibacterial; anti-HIV; human immunodeficiency virus; anti-infertility; cerebroprotective; nonotropic; antiulcer; antifungal; anticonvulsant; tranquilizer; neuroleptic; vasotropic; gynecological; keratolytic; protozoacide; gene therapy.		Qy	61 HPGSHKVPFRKRKHTCPCLPNLICSRPPDGRYRCMSMDLKNINF 105
XX	Homo sapiens.		Db	61 HPGSHKVPFRKRKHTCPCLPNLICSRPPDGRYRCMSMDLKNINF 105
OS			XX	RESULT 10
XX	WO2000070049-A2.		XX	AAM50773 standard; protein; 105 AA.
XX	23-NOV-2000.		XX	AAM50773;
XX	19-MAY-2000;	2000WO-US013975.	XX	23-APR-2002 (first entry)
XX			XX	Endocrine gland-derived vascular endothelial growth factor.
PR	19-MAY-1999;	99US-0134949P.	DE	
PR	15-JUL-1999;	99US-01470P.	XX	Endocrine gland-derived vascular endothelial growth factor; EG-VEGF;
PR	30-JUL-1999;	99US-0146700P.	KW	human; cell proliferation; cell migration; fenestration;
PR	04-OCT-1999;	99US-0157508P.	KW	cell differentiation; angiogenesis; chemotaxis; endocrine; infertility; fertility; polycystic ovarian syndrome; ovarian cyst; cancer; cytostatic;
XX	(INCY-) INCYTE GENOMICS INC.		KW	diagnosis; therapy.
XX	Tang YT, Yue H, Lal P, Burford N, Bandman O, Baughn MR;		XX	Homo sapiens.
PI	Azimzai Y, Lu DAM, Patterson C;		OS	

PH	Key	Location/Qualifiers	Qy	61
FT	Peptide	1..19	HPGSHKVPFERKRIHITCPCLPNLCSRFPDGYRCSMDLKNNF	105
FT	Protein	20..105	HPGSHKVPFERKRIHITCPCLPNLCSRFPDGYRCSMDLKNNF	105
FT	Modified-site	33	/label= Signal_Peptide	
FT	Modified-site	35	/note= "N-myristoylated"	
FT	Modified-site	46	/note= "N-myristoylated"	
FT	Modified-site	46	/note= "N-myristoylated"	
XX	WO200200711-A2.			
PN				
XX	03-JAN-2002.			
XX	22-JUN-2001; 2001WO-US020116.			
XX	23-JUN-2000; 2000US-0213631P.			
PR	07-SEP-2000; 2000US-0230971P.			
PR	01-DEC-2000; 2000WO-US032678.			
XX	(GPTH ) GENENTECH INC.			
PA				
PI	Ferrara N, Watanabe C, Wood WI;			
XX	WPI: 2002-130882/17.			
DR	N-PSDB; ABA91567.			
XX	New endocrine gland-vascular endothelial growth factor (EG-VEGF) polypeptides, agonists and antagonists, useful for regulating fertility, and for treating cancer of the reproductive organs, e.g. ovarian or prostate cancer.			
XX	Claim 12; Fig 2; 133pp; English.			
CC	The present sequence is that of a novel, tissue-restricted, growth and differentiation factor termed endocrine gland-derived vascular endothelial growth factor (EG-VEGF). The sequence is predicted from the open reading frame of a cDNA clone (see ABA1567) obtained from an ovarian tissue library. EG-VEGF induces proliferation, migration and penetrations in capillary endothelial cells derived from endocrine glands, but has no effect on variety of other endothelial and non-endothelial cell types tested. The EG-VEGF precursor has a predicted mol. wt. of 11715 and a PI of 9.05. The mature protein (mol. wt. 8600) is cysteine-rich and is predicted to consist of a series of short beta strands with large connecting loops held together by disulfide bonds resulting in a flat fold with finger-like projections that act as interactive surfaces. 80% Homology and 63% identity is shown to venom protein A (VPA) of the black mamba snake, and 76% homology and 58% identity to human protein Bv8. EG-VEGF nucleic acids and polypeptides, as well as agonists and antagonists, can be used in the treatment of conditions associated with hormone-producing tissue, especially ovarian, testicular, cervical, adrenal, placental or prostate tissue. The condition may be polycystic ovary syndrome, cancer, especially ovarian cancer, testicular cancer, prostate cancer or uterine cancer, or ovarian cyst (all claimed). Fertility can be regulated using an EG-VEGF antagonist to inhibit follicle maturation or ovulation. Methods are claimed for identifying compounds that modulate EG-VEGF activity, especially the ability to induce phosphorylation of a kinase involved in cell proliferation or survival, to induce chemotaxis, angiogenesis, or cell differentiation, or to induce endothelial cell proliferation			
CC	Sequence 105 AA;			
CC	Query Match Best Local Similarity 100.0%; Score 589; Length 105;			
CC	Matches 105; Conservative 0; Mismatches 0; Indels 0; Gaps 0;			
Qy	1	MRGATRVSIMLLVTVSDCAVITGACERDVOCAAGTCACISIWLGRIRMCTPLGREGEC	60	
Db	1	MRGATRVSIMLLVTVSDCAVITGACERDVOCAAGTCACISIWLGRIRMCTPLGREGEC	60	
XX	Qy	61	HPGSHKVPFERKRIHITCPCLPNLCSRFPDGYRCSMDLKNNF	105
DB	DB	61	HPGSHKVPFERKRIHITCPCLPNLCSRFPDGYRCSMDLKNNF	105
		RESULT 11		
		AAU83674		
		ID AAU83674 standard; protein; 105 AA.		
		XX		
		AC AAU83674;		
		XX		
		DT 08-MAY-2002 (first entry)		
		XX		
		DE Human PRO protein, Seq ID No 166.		
		XX		
		KW Human; secreted protein; PRO; tumour; lung cancer; colon cancer;		
		KW breast cancer; prostate tumour; rectal tumour; liver tumour;		
		KW pericyte cell proliferation; chondrocyte cell proliferation;		
		KW tumour necrosis factor-alpha.		
		XX		
		OS Homo sapiens.		
		XX		
		PN WO200208288-A2.		
		XX		
		PD 31-JAN-2002.		
		XX		
		PP 29-JUN-2001; 20001WO-US021066.		
		XX		
		PR 20-JUL-2000; 20000US-0219556P.		
		PR 25-JUL-2000; 20000US-0220505P.		
		PR 25-JUL-2000; 20000US-022065P.		
		PR 20000US-0220607P.		
		PR 25-JUL-2000; 20000US-0220674P.		
		PR 25-JUL-2000; 20000US-0220638P.		
		PR 25-JUL-2000; 20000US-0220664P.		
		PR 25-JUL-2000; 20000US-0220666P.		
		PR 25-JUL-2000; 20000US-0220668P.		
		PR 25-JUL-2000; 20000US-0220669P.		
		PR 25-JUL-2000; 20000US-0220670P.		
		PR 25-JUL-2000; 20000US-0220671P.		
		PR 25-JUL-2000; 20000US-0220672P.		
		PR 25-JUL-2000; 20000US-0220673P.		
		PR 25-JUL-2000; 20000US-0220674P.		
		PR 25-JUL-2000; 20000US-0220675P.		
		PR 25-JUL-2000; 20000US-0220676P.		
		PR 25-JUL-2000; 20000US-0220677P.		
		PR 25-JUL-2000; 20000US-0220678P.		
		PR 25-JUL-2000; 20000US-0220679P.		
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KW Human; ZAQ ligand; physiologically-active ZAQ ligand; digestive disease; colitis; diarrhoea.  
 KW colitis; diarrhoea.  
 OS Homo sapiens.  
 XX WO200257443-A1.  
 XX PD 25-JUL-2002.  
 XX PF 21-JAN-2002; 2002WO-JP000378.  
 XX PR 22-JAN-2001; 2001JP-00013027.  
 PR 17-MAY-2001; 2001JP-00147755.  
 XX PS (TAKE ) TAKEDA CHEM IND LTD.  
 XX PA (TAKE ) TAKEDA CHEM IND LTD.  
 XX PI Ohtaki T, Masuda Y, Takatsu Y, Watanabe T, Terao Y, Shintani Y,  
 PI Hinuma S;  
 XX DR N-PSDB; ABL49637.  
 XX PT Physiologically active peptides from cows milk, useful for developing  
 PT drugs to treat ZAQ-mediated diseases, particularly digestive diseases  
 PT like colitis, diarrhea, constipation and poor-absorption syndrome, by  
 PT gene therapy.  
 XX PS Claim 5; Page 61; 191pp; Japanese.

XX The present invention describes a peptide containing an amino acid  
 CC sequence (I) identical to or substantially similar to that of the  
 CC sequences in ABB06305 or ABB06306, or its salt. (I) has antidiarrheic and  
 CC laxative activities. The peptides and encoding DNAs from the present  
 CC invention are useful for developing drugs to treat digestive diseases  
 CC like colitis, diarrhea, constipation and poor-absorption syndrome  
 CC including gene therapy. The physiologically-active cows milk-originated  
 CC peptides are applicable as a specific ligand of brain-originated orphan  
 CC protein-coupled receptor protein ZAQ. ABL49615 to ABB40659 and ABB06303  
 CC to ABB06315 represent sequences used in the exemplification of the  
 CC present invention.

XX Sequence 105 AA;  
 SQ

Query Match 100.0%; Score 589; DB 5; Length 105;  
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 Db 1 MEGATRVSIMLLVTVSDCAVITGACERDVOGAGTCAISLWLGLRMCPLGREGEEC 60  
 Qy 61 HPGSHKVPPFRKRKHITCPCLPNLICSRFPDGRYRCMSDLKRNINF 105  
 Db 61 HPGSHKVPPFRKRKHITCPCLPNLICSRFPDGRYRCMSDLKRNINF 105  
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 ID AAE24382 standard; protein: 105 AA.  
 XX AC AAE24382;  
 XX DT 04-OCT-2002 (first entry)

RESULT 14  
 ABB06308  
 ID ABB06308 standard; protein: 105 AA.  
 XX AC ABB06308;  
 XX DT 27-MAY-2002 (first entry)  
 XX Human G protein-coupled receptor ZAQ ligand protein SEQ ID NO:23.  
 XX G protein-coupled receptor; ZAQ ligand; physiologically active peptide;  
 KW ZAQ; antidiarrheic; laxative; drug development; digestive disease;  
 KW colitis; diarrhoea; constipation; poor-absorption syndrome; gene therapy.  
 OS Homo sapiens.  
 XX WO200206483-A1.  
 XX PD 24-JAN-2002.  
 XX PF 17-JUL-2001; 2001WO-JP006162.  
 XX PR 18-JUL-2000; 2000JP-00217442.  
 PR 02-FEB-2001; 2001JP-00026779.  
 XX PN WO200236625-A2.  
 XX PD 10-MAY-2002.  
 XX PR 01-NOV-2001; 2001WO-US047969.  
 PR 03-NOV-2000; 2000US-0245882P.

XX Human prokineticin 1 precursor protein.  
 XX DE Human prokineticin 1 precursor protein.

XX OS Homo sapiens.  
 XX PH Human; prokineticin 1; gastrointestinal motility; intestinal cancer;  
 KW Human; prokineticin 1; gastrointestinal motility; intestinal cancer;  
 KW irritable bowel syndrome; gastrointestinal reflux disease; diarrhoea;  
 KW diabetic gastraparesis; chronic constipation; malabsorptive disorder;  
 KW inflammatory bowel disorder; analgesic; infectious disease.  
 XX DE Human prokineticin 1 precursor protein.  
 XX DE Human prokineticin 1 precursor protein.

XX Location/Qualifiers  
 1.19  
 /label= Signal\_peptide

20..105  
 /note= "Nature human prokineticin 1"

XX WO200236625-A2.

XX PD 10-MAY-2002.

XX PR 01-NOV-2001; 2001WO-US047969.

XX PR 03-NOV-2000; 2000US-0245882P.

(REGC ) UNIV CALIFORNIA.  
zhou Q, Ehler FJ;  
WPI: 2002-479752/51.  
N-PSB; AAD39321.  
New isolated human prokineticin 1 and 2 polypeptides that stimulate gastrointestinal smooth muscle contraction, useful for improving impaired gastrointestinal motility in irritable bowel syndrome, chronic constipation.

Example 1; Fig 1; 86pp; English.

The invention relates to human prokineticin 1 and 2 polypeptides that stimulate gastrointestinal smooth muscle contraction and nucleic acid molecules encoding such polypeptides. Polypeptides of the invention are useful for treating disorders involving impaired gastrointestinal motility. They are useful for stimulating gastrointestinal motility in disorders such as irritable bowel syndrome, diabetic gastroparesis, post-operative ileus, chronic constipation and gastrointestinal reflux disease. The prokineticin antagonists are useful for inhibiting gastrointestinal motility in conditions of diarrhoea, malabsorptive disorders, inflammatory bowel disorders, infectious diseases and intestinal cancers. The antagonists also act as analgesics. The present sequence is human prokineticin 1 precursor protein

Query	Match	100.0%	Score 589;	DB 5;	Length 105;
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b	61	HPGSHKVPFFPKRKHHTCPCLPNL1	CSRFPGYRC	CSMDLKNTNP	105

search completed: September 20, 2005, 12:55:58  
search time: 157 seconds

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Result No.	Score	Query	Match	Length	DB	ID	Description
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2	589	100.0	105	4	US-10-212-201A-5		Sequence 5, Appli
3	589	100.0	105	4	US-10-212-355-5		Sequence 5, Appli
4	577	98.0	105	4	US-09-621-976-5350		Sequence 5350, AD
5	448	76.1	80	4	US-09-513-999C-4698		Sequence 4698, AD
6	7	303	51.4	103	4	US-09-712-529-2	Sequence 2, Appli
8	303	51.4	108	4	US-10-212-201A-2	Sequence 2, Appli	Sequence 2, Appli
9	107	5	18.3	224	3	US-09-161-241-14	Sequence 14, Appli
10	102	17.3	186	4	US-09-949-016-7146	Sequence 7146, AD	Sequence 13, Appli
11	102	17.3	207	3	US-09-161-241-13	Sequence 12, Appli	Sequence 12, Appli
12	102	17.3	259	3	US-09-161-241-12	Sequence 8872, AD	Sequence 8872, AD
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14	101	17.1	259	3	US-09-161-241-11	Sequence 9, Appli	Sequence 9, Appli
15	100.5	17.1	350	3	US-09-161-241-9	Sequence 236, APP	Sequence 236, APP
16	100.5	17.1	350	4	US-09-905-125A-236	Sequence 236, APP	Sequence 236, APP
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18	100.5	17.1	350	4	US-09-902-775A-236	Sequence 236, APP	Sequence 236, APP
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22	100.5	17.1	350	4	US-09-904-064-236	Sequence 236, APP	Sequence 236, APP
23	100.5	17.1	350	4	US-09-905-381A-236	Sequence 236, APP	Sequence 236, APP
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## ALIGNMENTS

RESULT 1  
US-09-712-529-5

; Sequence 5, Application US/09712529  
; Patent No. 648938

; GENERAL INFORMATION:  
; APPLICANT: Sheppard, Paul O.  
; APPLICANT: Bishop, Paul D.  
; APPLICANT: Whitmore, Theodore E.  
; APPLICANT: Thompson, Penny P.  
; TITLE OF INVENTION: Human Zven Proteins  
; FILE REFERENCE: 99-81  
; CURRENT APPLICATION NUMBER: US/09/712,529  
; NUMBER OF SEQ ID NOS: 7  
; SOFTWARE: FastSEQ for Windows Version 3.0  
; SEQ ID NO: 5  
; LENGTH: 105  
; TYPE: PRT  
; ORGANISM: Homo sapiens

US-09-712-529-5

Query Match 100.0%; Score 589; DB 4; Length 105;  
Best Local Similarity 100.0%; Pred. No. 9.3e-59;  
Matches 105; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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DB 1 MRGATRVSIMLLTVTSDCAVITGACERDVGAGTCACISWLRLGRMCTPLGRGBC 60  
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pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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Result No.	Score	Query	Match	Length	DB	ID	Description	
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8	303	51.4	108	4	US-10-212-201A-2	Sequence 2, Appli	Sequence 2, Appli	
9	107	5	18.3	224	3	US-09-161-241-14	Sequence 14, Appli	Sequence 14, Appli
10	102	17.3	186	4	US-09-949-016-7146		Sequence 7146, AD	
11	102	17.3	207	3	US-09-161-241-13		Sequence 13, Appli	
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13	102	17.3	259	4	US-09-949-016-6872		Sequence 8872, AD	
14	101	17.1	259	3	US-09-161-241-11		Sequence 11, Appli	
15	100.5	17.1	350	3	US-09-161-241-9		Sequence 9, Appli	
16	100.5	17.1	350	4	US-09-905-125A-236		Sequence 236, APP	
17	100.5	17.1	350	4	US-09-905-794A-236		Sequence 236, APP	
18	100.5	17.1	350	4	US-09-902-775A-236		Sequence 236, APP	
19	100.5	17.1	350	4	US-09-906-700-236		Sequence 236, APP	
20	100.5	17.1	350	4	US-09-903-603A-236		Sequence 236, APP	
21	100.5	17.1	350	4	US-09-904-920A-236		Sequence 236, APP	
22	100.5	17.1	350	4	US-09-904-064-236		Sequence 236, APP	
23	100.5	17.1	350	4	US-09-905-381A-236		Sequence 236, APP	
24	100.5	17.1	350	4	US-09-906-618-236		Sequence 7857, AD	
25	100.5	17.1	375	4	US-09-949-016-7856		Sequence 7858, AD	
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SOFTWARE: FastSEQ for Windows Version 3.0

SEQ ID NO 5

LENGTH: 105

TYPE: PRT

ORGANISM: Homo sapiens

US-10-212-201A-5

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RESULT 3

US-10-212-355-5

Sequence 5, Application US/10212355

Patent No. 6828425

GENERAL INFORMATION:

APPLICANT: Sheppard, Paul O.

INVENTION: Human Zven Proteins

FILE REFERENCE: 99-8-1

CURRENT APPLICATION NUMBER: US/10/212,355

CURRENT FILING DATE: 2002-08-02

NUMBER OF SEQ ID NOS: 7

SEQ ID NO 5

LENGTH: 105

TYPE: PRT

ORGANISM: Homo sapiens

US-10-212-355-5

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Db 61 HPGSHKVPFFRKHHTCPCLPNLLCSRFPGRYRCSDMLKNINF 105

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RESULT 4

US-09-621-976-5350

Sequence 5350, Application US/09621976

Patent No. 6639063

GENERAL INFORMATION:

APPLICANT: Dumas Milne Edwards, J.B.

INVENTION: ESTs and Encoded Human Proteins

FILE REFERENCE: GENSET.054PR2

CURRENT APPLICATION NUMBER: US/09/621,976

CURRENT FILING DATE: 2000-07-21

NUMBER OF SEQ ID NOS: 19335

SEQ ID NO 5350

LENGTH: 105

TYPE: PRT

ORGANISM: Homo sapiens

FEATURE:

NAME/KEY: SIGNAL

LOCATION: -19..-1

NAME/KEY: UNSURE

LOCATION: 38

OTHER INFORMATION: Xaa = Ala, Gly

US-09-621-976-5350

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Best Local Similarity 97.1%; Pred. No. 2.1e-57; Indels 0; Gaps 0;  
Matches 102; Conservative 1; Mismatches 1; Other Information: Xaa = Ala, Gly

Qy 1 MRGATRVSIMLLVTVSDCAVTGACERDVOGAGTCCAIISWLRLGMRMCTPLGRGEEBC 60  
Db 1 MRGATRVSIMLLVTVSDCAVTGACERDVOGAGTCCAIISWLRLGMRMCTPLGRGEEBC 60

Qy 61 HPGSHKVPFFRKHHTCPCLPNLLCSRFPGRYRCSDMLKNINF 105  
Db 61 HPGSHKVPFFRKHHTCPCLPNLLCSRFPGRYRCSDMLKNINF 105

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RESULT 5

US-09-513-999C-4698

Sequence 4698, Application US/09513999C

Patent No. 6783961

GENERAL INFORMATION:

APPLICANT: Dumas Milne Edwards, J.B.

INVENTION: Expressed Sequence Tags and Encoded Human Proteins

FILE REFERENCE: 59.US2.REG

CURRENT APPLICATION NUMBER: US/09/513,999C

CURRENT FILING DATE: 2000-02-24

PRIOR APPLICATION NUMBER: US 60/122,487

PRIOR FILING DATE: 1999-02-26

NUMBER OF SEQ ID NOS: 36681

SOFTWARE: Patent.pm

SEQ ID NO 4698

LENGTH: 80

TYPE: PRT

ORGANISM: Homo sapiens

FEATURE:

NAME/KEY: SIGNAL

LOCATION: -19..-1

OTHER INFORMATION: score 7.2

US-09-513-999C-4698

Query Match 76.1%; Score 448; DB 4; Length 80;  
Best Local Similarity 98.3%; Pred. No. 4.7e-43; Indels 0; Gaps 0;

Matches 79; Conservative 1; Mismatches 0; Other Information: seq VSIMLLTVSDC/AV

Qy 1 MRGATRVSIMLLVTVSDCAVTGACERDVOGAGTCCAIISWLRLGMRMCTPLGRGEEBC 60  
Db 1 MRGATRVSIMLLVTVSDCAVTGACERDVOGAGTCCAIISWLRLGMRMCTPLGRGEEBC 60

Qy 61 HPGSHKVPFFRKHHTCPCLPNLLCSRFPGRYRCSDMLKNINF 105  
Db 61 HPGSHKVPFFRKHHTCPCLPNLLCSRFPGRYRCSDMLKNINF 105

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RESULT 6

US-09-712-529-2

Sequence 2, Application US/09712529

Patent No. 645938

GENERAL INFORMATION:

APPLICANT: Sheppard, Paul O.

INVENTION: Human Zven Proteins

FILE REFERENCE: GENSET.054PR2

CURRENT APPLICATION NUMBER: US/09/712,529

CURRENT FILING DATE: 2000-07-21

NUMBER OF SEQ ID NOS: 19335

SEQ ID NO 5350

LENGTH: 105

TYPE: PRT

ORGANISM: Homo sapiens

FEATURE:

NAME/KEY: SIGNAL

LOCATION: -19..-1

NAME/KEY: UNSURE

LOCATION: 38

OTHER INFORMATION: Xaa = Ala, Gly

US-09-712-529-2

Query Match 98.0%; Score 577; DB 4; Length 105;  
Best Local Similarity 97.1%; Pred. No. 2.1e-57; Indels 0; Gaps 0;

Matches 102; Conservative 1; Mismatches 1; Other Information: Xaa = Ala, Gly

Qy 1 MRGATRVSIMLLVTVSDCAVTGACERDVOGAGTCCAIISWLRLGMRMCTPLGRGEEBC 60  
Db 1 MRGATRVSIMLLVTVSDCAVTGACERDVOGAGTCCAIISWLRLGMRMCTPLGRGEEBC 60

Qy 61 HPGSHKVPFFRKHHTCPCLPNLLCSRFPGRYRCSDMLKNINF 105  
Db 61 HPGSHKVPFFRKHHTCPCLPNLLCSRFPGRYRCSDMLKNINF 105



LENGTH: 186  
 TYPE: PRT  
 ORGANISM: Human  
 US-09-949-016-7146

Query Match 17.3%; Score 102; DB 3; Length 259;  
 Best Local Similarity 31.5%; Pred. No. 0.0012;  
 Matches 23; Conservative 8; Mismatches 30; Indels 12; Gaps 3;

Qy 26 CERDVOQGAGTCCAIISWLRLGRMCTPLGRGEEC---HPGSHKVPFFRKHHTCPCL 81  
 Db 183 CLRSSDCTIEGFCARHFW---TKICKPVTHQGEVCTKQRKGSHGLEIFQR---CDCA 234

Qy 82 PNLLCSRFPDGRY 94  
 Db 235 KGLSCKWKWDATY 247

RESULT 13  
 US-09-949-016-6872  
 ; Sequence 6872, Application US/09949016  
 ; Patent No. 6812339  
 ; GENERAL INFORMATION:  
 ; APPLICANT: VENTER, J. Craig et al.  
 ; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED  
 ; WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF  
 ; FILE REFERENCE: CI/001307  
 ; CURRENT APPLICATION NUMBER: US/09/949,016  
 ; CURRENT FILING DATE: 2000-04-14  
 ; PRIOR APPLICATION NUMBER: 60/241,755  
 ; PRIOR FILING DATE: 2000-10-20  
 ; PRIOR APPLICATION NUMBER: 60/237,768  
 ; PRIOR FILING DATE: 2000-10-03  
 ; PRIOR APPLICATION NUMBER: 60/231,498  
 ; PRIOR FILING DATE: 2000-09-08  
 ; NUMBER OF SEQ ID NOS: 207012  
 ; SOFTWARE: Fast-SEQ for Windows Version 4.0  
 ; SEQ ID NO: 6872  
 ; LENGTH: 259  
 ; TYPE: PRT  
 ; ORGANISM: Human  
 ; US-09-949-016-6872

Query Match 17.3%; Score 102; DB 4; Length 259;  
 Best Local Similarity 31.5%; Pred. No. 0.0012;  
 Matches 23; Conservative 8; Mismatches 30; Indels 12; Gaps 3;

Qy 26 CERDVOQGAGTCCAIISWLRLGRMCTPLGRGEEC---HPGSHKVPFFRKHHTCPCL 81  
 Db 183 CLRSSDCTIEGFCARHFW---TKICKPVTHQGEVCTKQRKGSHGLEIFQR---CDCA 234

Qy 82 PNLLCSRFPDGRY 94  
 Db 235 KGLSCKWKWDATY 247

RESULT 14  
 US-09-161-241-11  
 ; Sequence 11, Application US/09161241  
 ; Patent No. 6344541  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Sullivan, John K  
 ; APPLICANT: Theill, Lars E  
 ; APPLICANT: Wang, Daguang  
 ; TITLE OF INVENTION: NOVEL DKR POLYPEPTIDES  
 ; FILE REFERENCE: A-544  
 ; CURRENT APPLICATION NUMBER: US/09/161,241  
 ; CURRENT FILING DATE: 1998-09-25  
 ; NUMBER OF SEQ ID NOS: 78  
 ; SOFTWARE: PatentIn Ver. 2.0  
 ; SEQ ID NO: 12  
 ; LENGTH: 259  
 ; TYPE: PRT  
 ; ORGANISM: Mouse  
 ; US-09-161-241-11

Query Match 17.1%; Score 101; DB 3; Length 259;

Best Local Similarity 31.5%; Pred. No. 0.0016;  
 Matches 23; Conservative 8; Mismatches 30; Indels 12; Gaps 3;  
 Score 100.5; DB 3; Length 350;  
 Query Match 17.1%; Best Local Similarity 37.7%; Pred. No. 0.0025;  
 Matches 26; Conservative 3; Mismatches 29; Indels 11; Gaps 4;  
 Score 100.5; DB 3; Length 350;

Qy 26 CERDVQCGAGTCACISLWRLRMLPREGEBCH--HPGSHKVPFPKRKRHTCPOL 81  
 Db 183 CLRSSDCIDFCCARHFW--TKICKPVNLHQEVCTKQKKGSHGLEIFQR----CNA 234

Qy 82 PNLLCSRFPDGRY 94  
 Db 235 KGLSCKWWDATY 247

## RESULT 15

US-09-161-241-9  
 ; Sequence 9, Application US/09161241  
 ; Patent No. 6344541  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Bass, Michael B  
 ; APPLICANT: Sullivan, John K  
 ; APPLICANT: Theill, Mars E  
 ; APPLICANT: Wang, Dagang  
 ; TITLE OF INVENTION: NOVEL DKR POLYPEPTIDES  
 ; FILE REFERENCE: A-518  
 ; CURRENT APPLICATION NUMBER: US/09/161,241  
 ; CURRENT FILING DATE: 1998-09-25  
 ; NUMBER OF SEQ ID NOS: 78  
 ; SOFTWARE: PatentIn ver. 2.0  
 ; SEQ ID NO 9  
 ; LENGTH: 350  
 ; TYPE: PRT  
 ; ORGANISM: Human  
 ;  
 US-09-161-241-9

Query Match 17.1%; Best Local Similarity 37.7%; Pred. No. 0.0025;  
 Matches 26; Conservative 3; Mismatches 29; Indels 11; Gaps 4;  
 Score 100.5; DB 3; Length 350;  
 Query Match 17.1%; Best Local Similarity 37.7%; Pred. No. 0.0025;  
 Matches 26; Conservative 3; Mismatches 29; Indels 11; Gaps 4;  
 Score 100.5; DB 3; Length 350;

Qy 26 CERDVQCGAGTCACISLWRLRMLPREGEBCH--HPGSHKVPFPKRKRHT--HT 77  
 Db 208 CDNQRDCQGLCCAFQ--RGLLFPVCTLPVSEGLCHDPAASRLDLITWELPDGALDR 264

Qy 78 CPCLPNLIC 86  
 Db 265 CPCASGLIC 273

Search completed: September 20, 2005, 13:00:32  
 Job time : 43 secs

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OM protein - protein search, using sw model

Run on: September 20, 2005, 12:59:06 ; Search time 168 Seconds  
(without alignments)

Scoring table: BLOSUM62

Title: US-10-692-299-2

Perfect score: 589

Sequence: 1 MRGATRVSIMLLVTVSDCA.....CSRFPDGRYRCMSMDLKNINF 105

Total number of hits satisfying chosen parameters: 1812044

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0\*

Maximum Match 100\*

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13 589 100.0 105 9 US-09-992-598-371 Sequence 371, APP  
14 589 100.0 105 9 US-09-886-242A-2 Sequence 2, APP1  
15 589 100.0 105 9 US-09-989-293A-371 Sequence 371, APP  
16 589 100.0 105 9 US-09-965-528-11 Sequence 11, APP1  
17 589 100.0 105 9 US-09-989-735-371 Sequence 371, APP  
18 589 100.0 105 9 US-09-990-444-371 Sequence 371, APP  
19 589 100.0 105 9 US-09-991-181-1 Sequence 371, APP  
20 589 100.0 105 9 US-09-989-730-371 Sequence 371, APP  
21 589 100.0 105 9 US-09-990-436-371 Sequence 371, APP  
22 589 100.0 105 9 US-09-993-687-371 Sequence 371, APP  
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27 589 100.0 105 10 US-09-990-441-371 Sequence 371, APP  
28 589 100.0 105 10 US-09-993-667-371 Sequence 371, APP  
29 589 100.0 105 10 US-09-987-428-371 Sequence 371, APP  
30 589 100.0 105 10 US-09-987-666-371 Sequence 371, APP  
31 589 100.0 105 10 US-09-989-438-371 Sequence 371, APP  
32 589 100.0 105 10 US-09-980-562-371 Sequence 371, APP  
33 589 100.0 105 10 US-09-997-53-64 Sequence 64, APP1  
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36 589 100.0 105 10 US-09-988-156-371 Sequence 371, APP  
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38 589 100.0 105 10 US-09-991-157-371 Sequence 371, APP  
39 589 100.0 105 10 US-09-997-514-371 Sequence 371, APP  
40 589 100.0 105 10 US-09-997-573-371 Sequence 371, APP  
41 589 100.0 105 10 US-09-991-172-371 Sequence 371, APP  
42 589 100.0 105 10 US-09-990-726-371 Sequence 371, APP  
43 589 100.0 105 10 US-09-997-559-371 Sequence 371, APP  
44 589 100.0 105 10 US-09-987-601-371 Sequence 371, APP  
45 589 100.0 105 10 US-09-990-443-371 Sequence 371, APP

## ALIGNMENTS

## RESULT 1

US-09-989-722-371 ; Sequence 371, Application US/09989722  
; Patent No. US20020072067A1 ; GENERAL INFORMATION:  
; APPLICANT: Asbkenazi, Avi J.  
; APPLICANT: Baker, Kevin P.  
; APPLICANT: Botstein, David  
; APPLICANT: Desnoyers, Luc  
; APPLICANT: Eaton, Dan L.  
; APPLICANT: Ferrara, Napoleone  
; APPLICANT: Fong, Sherman  
; APPLICANT: Gerber, Hanspeter  
; APPLICANT: Gerritsen, Mary E.  
; APPLICANT: Goddard, Audrey  
; APPLICANT: Godowski, Paul J.  
; APPLICANT: Grimaldi, J. Christopher  
; APPLICANT: Gurney, Austin L.  
; APPLICANT: Kljavin, Ivar J.  
; APPLICANT: Napier, Mary A.  
; APPLICANT: Pan, James  
; APPLICANT: Paoni, Nicholas F.  
; APPLICANT: Roy, Margaret Ann  
; APPLICANT: Stewart, Timothy A.  
; APPLICANT: Tumas, Daniel  
; APPLICANT: Watanabe, Colin K.  
; APPLICANT: Williams, P. Mickey  
; APPLICANT: Wood, William I.  
; APPLICANT: TITUS OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
; TITLE OF INVENTION: Acids Encoding the Same  
; FILE REFERENCE: P2730BLIC63  
; CURRENT APPLICATION NUMBER: US/09/989,722  
; CURRENT FILING DATE: 2001-11-19

## SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
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2	589	100.0	105	9 US-09-989-723-371	Sequence 371, APP
3	589	100.0	105	9 US-09-989-279-371	Sequence 371, APP
4	589	100.0	105	9 US-09-989-727-371	Sequence 371, APP
5	589	100.0	105	9 US-09-989-731-371	Sequence 371, APP
6	589	100.0	105	9 US-09-989-732-371	Sequence 371, APP
7	589	100.0	105	9 US-09-991-073-371	Sequence 371, APP
8	589	100.0	105	9 US-09-990-442-371	Sequence 371, APP
9	589	100.0	105	9 US-09-991-163-371	Sequence 371, APP
10	589	100.0	105	9 US-09-993-604-371	Sequence 371, APP
11	589	100.0	105	9 US-09-990-456-371	Sequence 371, APP

PRIOR APPLICATION NUMBER: 60/049787  
PRIOR FILING DATE: 1997-06-16  
PRIOR APPLICATION NUMBER: 60/062250  
PRIOR FILING DATE: 1997-10-17  
PRIOR APPLICATION NUMBER: 60/065186  
PRIOR FILING DATE: 1997-11-12  
PRIOR APPLICATION NUMBER: 60/065311  
PRIOR FILING DATE: 1997-11-13  
PRIOR APPLICATION NUMBER: 60/066770  
PRIOR FILING DATE: 1997-11-24  
PRIOR APPLICATION NUMBER: 60/075945  
PRIOR FILING DATE: 1998-02-25  
PRIOR APPLICATION NUMBER: 60/078910  
PRIOR FILING DATE: 1998-03-30  
PRIOR APPLICATION NUMBER: 60/083322  
PRIOR FILING DATE: 1998-04-28  
PRIOR APPLICATION NUMBER: 60/084600  
PRIOR FILING DATE: 1998-05-07  
PRIOR APPLICATION NUMBER: 60/087106  
PRIOR FILING DATE: 1998-05-28  
PRIOR APPLICATION NUMBER: 60/087607  
PRIOR FILING DATE: 1998-06-02  
PRIOR APPLICATION NUMBER: 60/087609  
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PRIOR FILING DATE: 1998-06-02  
PRIOR APPLICATION NUMBER: 60/087827  
PRIOR FILING DATE: 1998-06-03  
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PRIOR FILING DATE: 1998-06-04  
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PRIOR FILING DATE: 1998-06-05  
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PRIOR APPLICATION NUMBER: 60/088826  
PRIOR FILING DATE: 1998-06-11  
PRIOR APPLICATION NUMBER: 60/089105  
PRIOR FILING DATE: 1998-06-11

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; PRIOR APPLICATION NUMBER: 60/090862
; PRIOR FILING DATE: 1998-06-26
; PRIOR APPLICATION NUMBER: 60/090863
; PRIOR FILING DATE: 1998-06-26
; PRIOR APPLICATION NUMBER: 60/091360
; PRIOR FILING DATE: 1998-07-01
; PRIOR APPLICATION NUMBER: 60/091478
; PRIOR FILING DATE: 1998-07-02
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; PRIOR APPLICATION NUMBER: 60/091626
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; PRIOR APPLICATION NUMBER: 60/091633
; PRIOR FILING DATE: 1998-07-02
; PRIOR APPLICATION NUMBER: 60/091978
; PRIOR FILING DATE: 1998-07-07
; PRIOR APPLICATION NUMBER: 60/091982
; PRIOR FILING DATE: 1998-07-07
; PRIOR APPLICATION NUMBER: 60/092182
; PRIOR FILING DATE: 1998-07-09

Query Match Score 569; DB 9; Length 105;
Best Local Similarity 100.0%; Pred. No. 1 4e-53;
Matches 105; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Db 1 MRGATRVSIMLLTVSDCAVITGACERVQCGAGTCCTISLWRGLRMLCTPLGREGEC 60

Qy 61 HPGSHKVPFRKRKHTCPLNLLCSRPDGRYRCSMDLKLKNIP 105
Db 61 HPGSHKVPFRKRKHTCPLNLLCSRPDGRYRCSMDLKLKNIP 105

RESULT 2
US 09-989-723-371
; Sequence 311, Application US/0989723
; Patent No. US20020072092A1
; GENERAL INFORMATION:
; APPLICANT: Ashkenazi, Avi J.
; APPLICANT: Baker, Kevin P.
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Fong, Sherman
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, Audrey
; APPLICANT: Grimaldi, J. Christopher
; APPLICANT: Gurney, Austin L.
; APPLICANT: Kjavin, Ivar J.
; APPLICANT: Napier, Mary A.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Watanabe, Colin K.
; APPLICANT: William, P. Mickey
; APPLICANT: Wood, William J.
; APPLICANT: Zhang, Zemin

; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; FILE REFERENCE: P2730P1C52
; CURRENT APPLICATION NUMBER: US/09/989,723
; CURRENT FILING DATE: 2001-11-19
; PRIOR APPLICATION NUMBER: 60/049787
; PRIOR FILING DATE: 1997-06-16
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; PRIOR FILING DATE: 1998-06-12
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 PRIOR APPLICATION NUMBER: 60/090863

PRIOR FILING DATE: 1998-06-26  
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 PRIOR FILING DATE: 1998-07-07  
 PRIOR APPLICATION NUMBER: 60/091982  
 PRIOR FILING DATE: 1998-07-07  
 PRIOR APPLICATION NUMBER: 60/092182  
 PRIOR FILING DATE: 1998-07-09

Query Match 100.0%; Score 589; DB 9; Length 105;  
 Best Local Similarity 100.0%; Pred. No. 1.4e-53;  
 Matches 105; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 MRGATRVSIMLILTVTSDCAVITGACERDVGAGTCATISWLRMCTPLGRSBECC 60  
 Db 1 MRGATRVSIMLILTVTSDCAVITGACERDVGAGTCATISWLRMCTPLGRSBECC 60

Qy 61 HPGSHKVPFFRKIHTICPCLPNLICSRFPDGRYRCMSMDLKINF 105  
 Db 61 HPGSHKVPFFRKIHTICPCLPNLICSRFPDGRYRCMSMDLKINF 105

RESULT 3  
 US-09-989-279-371  
 Sequence 371, Application US/09989279  
 Patent No. US2010072496A1  
 GENERAL INFORMATION:  
 APPLICANT: Ashkenazi, Avi J.  
 APPLICANT: Baker, Kevin P.  
 APPLICANT: Botstein, David  
 APPLICANT: Desnoyers, Luc  
 APPLICANT: Eaton, Dan L.  
 APPLICANT: Ferrara, Napoleone  
 APPLICANT: Fong, Sherman  
 APPLICANT: Gerber, Hanspeter  
 APPLICANT: Gerritsen, Mary E.  
 APPLICANT: Goddard, Audrey  
 APPLICANT: Desnoyers, Luc  
 APPLICANT: Eaton, Dan L.  
 APPLICANT: Grimaldi, J. Christopher  
 APPLICANT: Gurney, Austin L.  
 APPLICANT: Kijaviv, Iver J.  
 APPLICANT: Napier, Mary A.  
 APPLICANT: Pan, James  
 APPLICANT: Paon, Nichols F.  
 APPLICANT: Roy, Margaret Ann  
 APPLICANT: Stewart, Timothy A.  
 APPLICANT: Tumas, Daniel  
 APPLICANT: Watanabe, Colin K.  
 APPLICANT: Williams, P. Mickey  
 APPLICANT: Wood, William I.  
 APPLICANT: Zhang, Zemin  
 TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
 TITLE OF INVENTION: Acids Encoding the Same  
 FILE REFERENCE: P2730P1C56  
 CURRENT APPLICATION NUMBER: US/09/989,279  
 CURRENT FILING DATE: 2001-11-19  
 PRIOR APPLICATION NUMBER: 60/049-87  
 PRIOR FILING DATE: 1997-06-16  
 PRIOR APPLICATION NUMBER: 60/062250  
 PRIOR FILING DATE: 1997-10-17  
 PRIOR APPLICATION NUMBER: 60/065186  
 PRIOR FILING DATE: 1997-11-12

PRIOR APPLICATION NUMBER: 60/065311  
PRIOR FILING DATE: 1997-11-13  
PRIOR APPLICATION NUMBER: 60/066770  
PRIOR FILING DATE: 1997-11-24  
PRIOR APPLICATION NUMBER: 60/075945  
PRIOR FILING DATE: 1998-02-25  
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PRIOR FILING DATE: 1998-07-01

PRIOR APPLICATION NUMBER: 60/091478  
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 PRIOR FILING DATE: 1998-07-07  
 PRIOR APPLICATION NUMBER: 60/091982  
 PRIOR FILING DATE: 1998-07-07  
 PRIOR APPLICATION NUMBER: 60/092182  
 PRIOR FILING DATE: 1998-07-09

Query Match, Score 589; DB 9; Length 105;  
 Best Local Similarity 100.0%; Pred. No. 1.4e-33; Mismatches 0; Indels 0; Gaps 0;

Matches 105; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Qy 61 HPGSHKVBFRRKHKHCPCLPNLLCSRFPDGRYRCSDMLKINF 105  
 Db 61 HPGSHKVBFRRKHKHCPCLPNLLCSRFPDGRYRCSDMLKINF 105

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RESULT 4  
 US-9-989-727-371  
 Sequence 371, Application US/09989727  
 Patent No. US20020072497A1  
 GENERAL INFORMATION:  
 APPLICANT: Ashkenazi, Avi J.  
 APPLICANT: Baker, Kevin P.  
 APPLICANT: Botstein, David  
 APPLICANT: Desnoyers, Luc  
 APPLICANT: Eaton, Dan L.  
 APPLICANT: Ferrara, Napoleone  
 APPLICANT: Fong, Sherman  
 APPLICANT: Gerber, Hanspeter  
 APPLICANT: Gerritzen, Mary E.  
 APPLICANT: Goddard, Audrey  
 APPLICANT: Godowski, Paul J.  
 APPLICANT: Grimaldi, J. Christopher  
 APPLICANT: Gurney, Austin L.  
 APPLICANT: Kijavir, Ivar J.  
 APPLICANT: Napier, Mary A.  
 APPLICANT: Pan, James  
 APPLICANT: Paoni, Nicholas F.  
 APPLICANT: Roy, Margaret Ann  
 APPLICANT: Stewart, Timothy A.  
 APPLICANT: Tumas, Daniel  
 APPLICANT: Watanabe, Colin K.  
 APPLICANT: Williams, P. Mickey  
 APPLICANT: Wood, William I.  
 APPLICANT: Zhang, Zemin

TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
 TITLE OF INVENTION: Acids Encoding the Same  
 FILE REFERENCE: P2730P1C65

CURRENT APPLICATION NUMBER: US/09/989,727  
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 PRIOR FILING DATE: 1997-06-16  
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; PRIOR FILING DATE: 1998-07-01
; PRIOR APPLICATION NUMBER: 60/091478
; PRIOR FILING DATE: 1998-07-02
; PRIOR APPLICATION NUMBER: 60/091544

; Query Match Score 100.0%
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; Db 1 MRGATRISIMLLTVSDCAVITGACERDVQGAGTCATSLWLRGLRMCTPLGREGREC 60

; Qy 61 HPGSHKVPFRKRKXHTCPCLPNLLCSRPPDRYRCMSMDLKNINF 105
; Db 61 HPGSHKVPFRKRKXHTCPCLPNLLCSRPPDRYRCMSMDLKNINF 105

; RESULT 5
; US-09-989-731-371
; Sequence 371, Application US/09989731
; Patent No. US20020103125A1
; GENERAL INFORMATION:
; APPLICANT: Ashkenazi, Avi J.
; APPLICANT: Baker, Kevin P.
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Fong, Sherman
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, J. Christopher
; APPLICANT: Gurney, Austin L.
; APPLICANT: Kliavkin, Ivar J.
; APPLICANT: Napier, Mary A.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Watanabe, Colin K.
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William L.
; APPLICANT: Zhang, Zemin

; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; FILE REFERENCE: P273.OPICT0
; CURRENT APPLICATION NUMBER: US/09/989,731
; CURRENT FILING DATE: 2001-11-20
; PRIOR APPLICATION NUMBER: 60/049787
; PRIOR FILING DATE: 1997-06-16
; PRIOR APPLICATION NUMBER: 60/062250
; PRIOR FILING DATE: 1997-10-17
; PRIOR APPLICATION NUMBER: 60/065186
; PRIOR FILING DATE: 1997-11-12
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; PRIOR FILING DATE: 1998-02-25

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 ; PRIOR FILING DATE: 1998-07-02  
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 ; PRIOR APPLICATION NUMBER: 60/091982  
 ; PRIOR FILING DATE: 1998-07-07  
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 Query Match Score 589; DB 9; Length 105;  
 Best Local Similarity 100.0%; Pred. No. 1.e-53;  
 Matches 105; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
  
 Qy 1 MRGATRVSIMLLTVVSDAVITGACERVQCGATGCCISLWLRGLMCTPLGREGEC 60  
 Db 1 MRGATRVSIMLLTVVSDAVITGACERVQCGATGCCISLWLRGLMCTPLGREGEC 60  
  
 Qy 61 HPGSHKVPFFRKRKHTCPCLPNLICSRPDGRYRCSMDLKNTNP 105  
 Db 61 HPGSHKVPFFRKRKHTCPCLPNLICSRPDGRYRCSMDLKNTNP 105

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RESULT 6  
 US-09-989-732-371  
 ; Sequence 311, Application US/0989732  
 ; Patent No. 200212463A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Ashkenazi, Avi J.  
 ; APPLICANT: Baker, Kevin P.  
 ; APPLICANT: Borstein, David  
 ; APPLICANT: Desnoyers, Luc  
 ; APPLICANT: Eaton, Dan L.  
 ; APPLICANT: Ferrara, Napoleone  
 ; APPLICANT: Fong, Sherman  
 ; APPLICANT: Gerber, Hanspeter  
 ; APPLICANT: Gerritsen, Mary E.  
 ; APPLICANT: Goddard, Audrey  
 ; APPLICANT: Godowski, Paul J.  
 ; APPLICANT: Grimaldi, J. Christopher  
 ; APPLICANT: Gurney, Austin L.  
 ; APPLICANT: Kliavin, Ivar J.  
 ; APPLICANT: Napier, Mary A.  
 ; APPLICANT: Pan, James  
 ; APPLICANT: Paoni, Nicholas F.  
 ; APPLICANT: Roy, Margaret Ann  
 ; APPLICANT: Stewart, Timothy A.  
 ; APPLICANT: Tumas, Daniel  
 ; APPLICANT: Waranabe, Colin K.  
 ; APPLICANT: Williams, P. Mickey  
 ; APPLICANT: Wood, William J.  
 ; APPLICANT: Zhang, Zemin

TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
 TITLE OF INVENTION: Acids Encoding the Same

FILE REFERENCE: P2730P1C57  
 CURRENT APPLICATION NUMBER: US/09/989,732  
 CURRENT FILING DATE: 2001-11-19  
 PRIOR APPLICATION NUMBER: 60/049787  
 PRIOR FILING DATE: 1997-06-16  
 PRIOR APPLICATION NUMBER: 60/062250  
 PRIOR FILING DATE: 1997-10-17  
 PRIOR APPLICATION NUMBER: 60/065186  
 PRIOR FILING DATE: 1997-11-12  
 PRIOR APPLICATION NUMBER: 60/065311  
 PRIOR FILING DATE: 1997-11-13  
 PRIOR APPLICATION NUMBER: 60/066770  
 PRIOR FILING DATE: 1997-11-24  
 PRIOR APPLICATION NUMBER: 60/075945  
 PRIOR FILING DATE: 1998-02-25  
 PRIOR APPLICATION NUMBER: 60/078910  
 PRIOR FILING DATE: 1998-03-20  
 PRIOR APPLICATION NUMBER: 60/083322  
 PRIOR FILING DATE: 1998-06-17  
 PRIOR APPLICATION NUMBER: 60/089998  
 PRIOR FILING DATE: 1998-06-17  
 PRIOR APPLICATION NUMBER: 60/089599  
 PRIOR FILING DATE: 1998-06-17  
 ; PRIOR FILING DATE: 1998-06-17

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; PRIOR APPLICATION NUMBER: 60/089600
; PRIOR FILING DATE: 1998-06-17
; PRIOR APPLICATION NUMBER: 60/089653
; PRIOR FILING DATE: 1998-06-17
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; PRIOR APPLICATION NUMBER: 60/091626
; PRIOR FILING DATE: 1998-07-02
; PRIOR APPLICATION NUMBER: 60/091633

; PRIOR FILING DATE: 1998-07-02
; PRIOR APPLICATION NUMBER: 60/091978
; PRIOR FILING DATE: 1998-07-07
; PRIOR APPLICATION NUMBER: 60/091982
; PRIOR FILING DATE: 1998-07-07
; PRIOR APPLICATION NUMBER: 60/092182
; PRIOR FILING DATE: 1998-07-09

Query Match 100 %; Score 589; DB 9; Length 105;
Best Local Similarity 100 %; Pred. No. 1.4e-53;
Matches 105; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 MRGATRYSIMLILTVSDCAVITGACERDYQAGTCATISWLGRMCTPLGRGEEC 60
Db 1 MRGATRYSIMLILTVSDCAVITGACERDYQAGTCATISWLGRMCTPLGRGEEC 60

Qy 61 HPGSHKVPPFRKRKHTCPCLPNLICSRFPDGRYRCSDMLKINF 105
Db 61 HPGSHKVPPFRKRKHTCPCLPNLICSRFPDGRYRCSDMLKINF 105

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RESULT 7

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US-09-991-073-371
; Sequence 371, Application US/09991073
; Patent No. US20020127576A1
; GENERAL INFORMATION:
; APPLICANT: Ashkenazi, Avi J.
; APPLICANT: Baker, Kevin P.
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Bacon, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Fong, Sherman
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, J. Christopher
; APPLICANT: Gurney, Austin L.
; APPLICANT: Kijavian, Ivar J.
; APPLICANT: Napier, Mary A.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Watanabe, Colin K.
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William I.
; APPLICANT: Zhang, Zemin

; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; Acid Encoding the Same
; FILE REFERENCE: P2730PIC15
; CURRENT APPLICATION NUMBER: US/09/991,073
; CURRENT FILING DATE: 2001-11-14
; PRIOR APPLICATION NUMBER: 60/049787
; PRIOR FILING DATE: 1997-06-16
; PRIOR APPLICATION NUMBER: 60/062250
; PRIOR FILING DATE: 1997-10-17
; PRIOR APPLICATION NUMBER: 60/065186
; PRIOR FILING DATE: 1997-11-12
; PRIOR APPLICATION NUMBER: 60/065311
; PRIOR FILING DATE: 1997-11-13
; PRIOR APPLICATION NUMBER: 60/066770
; PRIOR FILING DATE: 1997-11-24
; PRIOR APPLICATION NUMBER: 60/075945
; PRIOR FILING DATE: 1998-02-25
; PRIOR APPLICATION NUMBER: 60/078910
; PRIOR FILING DATE: 1998-03-20
; PRIOR APPLICATION NUMBER: 60/083322
; PRIOR FILING DATE: 1998-04-28
; PRIOR APPLICATION NUMBER: 60/084600
; PRIOR FILING DATE: 1998-05-07

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PRIOR APPLICATION NUMBER: 60/087106  
PRIOR FILING DATE: 1998-05-28  
PRIOR APPLICATION NUMBER: 60/087607  
PRIOR FILING DATE: 1998-06-02  
PRIOR APPLICATION NUMBER: 60/087609  
PRIOR FILING DATE: 1998-06-02  
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PRIOR FILING DATE: 1998-06-02  
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PRIOR FILING DATE: 1998-06-04  
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PRIOR FILING DATE: 1998-06-17  
PRIOR APPLICATION NUMBER: 60/089600  
PRIOR FILING DATE: 1998-06-17  
PRIOR APPLICATION NUMBER: 60/089653  
PRIOR FILING DATE: 1998-06-17  
PRIOR APPLICATION NUMBER: 60/091626  
PRIOR APPLICATION NUMBER: 60/091633  
PRIOR FILING DATE: 1998-07-01  
PRIOR APPLICATION NUMBER: 60/091979

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; PRIOR APPLICATION NUMBER: 60/091982
; PRIOR FILING DATE: 1998-07-07
; PRIOR APPLICATION NUMBER: 60/092182
; PRIOR FILING DATE: 1998-07-09

Query Match 100.0%; Score 589; DB 9; Length 105;
Best Local Similarity 100.0%; Pred. No. 1.4e-3;
Matches 105; Conservative 0; Mismatches 0; Gaps 0;

Qy 1 MRGATRVSIMLLVTVSDAVITGACERDVQGAGTCCAAISWLGRMCTPLGREGEEC 60
Db 1 MRGATRVSIMLLVTVSDAVITGACERDVQGAGTCCAAISWLGRMCTPLGREGEEC 60

Qy 61 HPGSHKVPFRKRKHTCPCLPNLLCSRFDGRYRCSDMLKNINF 105
Db 61 HPGSHKVPFRKRKHTCPCLPNLLCSRFDGRYRCSDMLKNINF 105

RESULT 8
US 09-990-442-371
Sequence 371, Application US/0990442
Patent No. US200212252A1
GENERAL INFORMATION:
; APPLICANT: Ashkenazi, Avi J.
; APPLICANT: Baker, Kevin P.
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Julie
; APPLICANT: Baton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Pong, Sherman
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, J. Christopher
; APPLICANT: Gurney, Austin L.
; APPLICANT: Kijaviv, Ivar J.
; APPLICANT: Napier, Mary A.
; APPLICANT: Pan, James
; APPLICANT: Peoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Watanabe, Colin K.
; APPLICANT: Williams, P. Michay
; APPLICANT: Wood, William I.
; APPLICANT: Zhang, Zemin

TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
TITLE OF INVENTION: Acids Encoding the Same
FILE REFERENCE: P2740P1CB

CURRENT APPLICATION NUMBER: US/09/990,442
CURRENT FILING DATE: 2001-11-14
; PRIOR APPLICATION NUMBER: 60/049787
; PRIOR FILING DATE: 1997-06-16
; PRIOR APPLICATION NUMBER: 60/062250
; PRIOR FILING DATE: 1997-10-17
; PRIOR APPLICATION NUMBER: 60/065186
; PRIOR FILING DATE: 1997-11-12
; PRIOR APPLICATION NUMBER: 60/065311
; PRIOR FILING DATE: 1997-11-13
; PRIOR APPLICATION NUMBER: 60/066770
; PRIOR FILING DATE: 1997-11-24
; PRIOR APPLICATION NUMBER: 60/075945
; PRIOR FILING DATE: 1998-02-25
; PRIOR APPLICATION NUMBER: 60/078910
; PRIOR FILING DATE: 1998-03-20
; PRIOR APPLICATION NUMBER: 60/083322
; PRIOR FILING DATE: 1998-04-28
; PRIOR APPLICATION NUMBER: 60/084600
; PRIOR FILING DATE: 1998-05-07
; PRIOR APPLICATION NUMBER: 60/087106
; PRIOR FILING DATE: 1998-05-28
; PRIOR APPLICATION NUMBER: 60/087607

; PRIOR FILING DATE: 1998-06-02
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; PRIOR FILING DATE: 1998-06-02
; PRIOR APPLICATION NUMBER: 60/087759
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; PRIOR APPLICATION NUMBER: 60/089600
; PRIOR FILING DATE: 1998-06-17
; PRIOR APPLICATION NUMBER: 60/089653
; PRIOR FILING DATE: 1998-06-17
; PRIOR APPLICATION NUMBER: 60/089801
; PRIOR FILING DATE: 1998-06-18

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; PRIOR FILING DATE: 1998-07-09
; Query Match 100.0%; Score 589; DB 9; Length 105;
; Best Local Similarity 100.0%; Pred. No. 1.4e-53;
; Matches 105; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 MRGATRVSMLLVTSDAVITGACERDVGAGTCISLWLRGLRMCPLGREGBEC 60
Db 1 MRGATRVSMLLVTSDAVITGACERDVGAGTCISLWLRGLRMCPLGREGBEC 60
Qy 61 HPGSHKVPFRKRKHTCPCLPNLJCSRPFDGRYRCSMDLKNINF 105
Db 61 HPGSHKVPFRKRKHTCPCLPNLJCSRPFDGRYRCSMDLKNINF 105

RESULT 9
; Sequence 371, Application US/09991163
; Patent No. US20020132253A1
; GENERAL INFORMATION:
; APPLICANT: Ashkenazi, Avi J.
; APPLICANT: Baker, Kevin P.
; APPLICANT: Borstein, David
; APPLICANT: DeNooyer, Luc
; APPLICANT: Bacon, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Fong, Sherman
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, J. Christopher
; APPLICANT: Gurney, Austin L.
; APPLICANT: Kjavian, Ivar J.
; APPLICANT: Napier, Mary A.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Watanaabe, Colin K.
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William I.
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; ACIDS Encoding the Same
; FILE REFERENCE: P2730P1C17
; CURRENT APPLICATION NUMBER: US/09/991,163
; CURRENT FILING DATE: 2001-11-14
; PRIOR APPLICATION NUMBER: 60/049787
; PRIOR FILING DATE: 1997-06-16
; PRIOR APPLICATION NUMBER: 60/062250
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; PRIOR APPLICATION NUMBER: 60/087106
; PRIOR FILING DATE: 1998-05-28
; PRIOR APPLICATION NUMBER: 60/087607
; PRIOR FILING DATE: 1998-06-02
; PRIOR APPLICATION NUMBER: 60/087609

; PRIOR APPLICATION NUMBER: 60/089907
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; PRIOR APPLICATION NUMBER: 60/091633
; PRIOR FILING DATE: 1998-07-02
; PRIOR APPLICATION NUMBER: 60/091978
; PRIOR FILING DATE: 1998-07-07
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Query Match 100.0%; Score 589; DB 9; Length 105;

Best Local Similarity 100.0%; Pred. No. 1.4e-53; Matches 105; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 MRGATRVSIMLLTVVSDAVITGACERIVQCGAGTCGCCISLWLRGLMCTPLGREGEC 60  
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Qy 61 HPGSHKVPFRKRKHTCCLPNLCSRPDGRYRCMSMLANINF 105  
 Db 61 HPGSHKVPFRKRKHTCCLPNLCSRPDGRYRCMSMLANINF 105

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RESULT 10

US-09-933-604-371  
 Sequence 371, Application US/099933604

GENERAL INFORMATION:

APPLICANT: Ashkenazi, Avi J.  
 APPLICANT: Baker, Kevin P.  
 APPLICANT: Borstein, David  
 APPLICANT: Desnoyers, Luc  
 APPLICANT: Eaton, Dan L.  
 APPLICANT: Ferrara, Napoleone  
 APPLICANT: Fong, Sharman  
 APPLICANT: Gerber, Hanspeter  
 APPLICANT: Gerritsen, Mary E.  
 APPLICANT: Goddard, Audrey  
 APPLICANT: Grimaldi, J. Christopher  
 APPLICANT: Gurney, Austin L.  
 APPLICANT: Kilaviv, Ivar J.  
 APPLICANT: Napier, Mary A.  
 APPLICANT: Pan, James  
 APPLICANT: Paoni, Nicholas F.  
 APPLICANT: Roy, Margaret Ann  
 APPLICANT: Stewart, Timothy A.  
 APPLICANT: Tumas, Daniel  
 APPLICANT: Watanabe, Colin K.  
 APPLICANT: William, P. Mickey  
 APPLICANT: Wood, William I.  
 APPLICANT: Zhang, Zemin

TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic Acids Encoding the Same

TITLE OF INVENTION: P2730P1C25

CURRENT APPLICATION NUMBER: US/09/993,604

FILE REFERENCE: P2730P1C25

CURRENT FILING DATE: 2001-11-14

PRIOR APPLICATION NUMBER: 60/049787  
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 PRIOR APPLICATION NUMBER: 60/092182  
 PRIOR FILING DATE: 1998-07-09

Query Match 100.0% Score 589; DB 9; Length 105;  
 Best Local Similarity 100.0%; Pred. No. 1.4e-1; Indels 0; Gaps 0;  
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; PRIOR FILING DATE: 1998-07-09

Query Match 100.0%; Score 589; DB 9; Length 105;
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Matches 105; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 1 MRGATRVSIMILVYSDCAVITGACERDVQGAGTCCAISIWLRLRMCTPLGRGEBEC 60
Db 1 MRGATRVSIMILVYSDCAVITGACERDVQGAGTCCAISIWLRLRMCTPLGRGEBEC 60

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Qy 61 HPGSHKVPFRKRKHTTCPCLPNLLCSRFPDGRYRCSCMDLRKINF 105  
 Db 61 HPGSHKVPFRKRKHTTCPCLPNLLCSRFPDGRYRCSCMDLRKINF 105

RESULT 12

US-09-989-721-371

Sequence 371, Application US/09989721

Patent No. US2002142961A1

GENERAL INFORMATION:

APPLICANT: Ashkenazi, Avi J.

APPLICANT: Baker, Kevin P.

APPLICANT: Botstein, David

APPLICANT: Desnoyer, Luc

APPLICANT: Baton, Dan L.

APPLICANT: Ferrara, Napoleone

APPLICANT: Pong, Sherman

APPLICANT: Gerber, Hanspeter

APPLICANT: Gerritsen, Mary E.

APPLICANT: Goddard, Audrey

APPLICANT: Godowski, Paul J.

APPLICANT: Grimaldi, J. Christopher

APPLICANT: Gurney, Austin L.

APPLICANT: Kijaviv, Ivar J.

APPLICANT: Napier, Mary A.

APPLICANT: Pan, James

APPLICANT: Paoni, Nicholas P.

APPLICANT: Roy, Margaret Ann

APPLICANT: Stewart, Timothy A.

APPLICANT: Tumas, Daniel

APPLICANT: Watansabe, Colin K.

APPLICANT: Williams, P. Mickey

APPLICANT: Wood, William I.

APPLICANT: Zhang, Zemin

TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic acids Encoding the Same

FILE REFERENCE: P2730PIC55

CURRENT APPLICATION NUMBER: US/09/989,721

CURRENT FILING DATE: 2001-11-19

PRIOR APPLICATION NUMBER: 60/049787

PRIOR FILING DATE: 1997-06-16

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PRIOR APPLICATION NUMBER: 60/065186

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Query Match 100.0%; Score 589; DB 9; Length 105;  
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; PRIOR APPLICATION NUMBER: 60/091978
; PRIOR FILING DATE: 1998-07-07
; PRIOR APPLICATION NUMBER: 60/091982
; PRIOR FILING DATE: 1998-07-07
; PRIOR APPLICATION NUMBER: 60/092182
; PRIOR FILING DATE: 1998-07-09

Query Match 100.0%; Score 589; DB 9; Length 105;
Best Local Similarity 100.0%; Pred. No. 1.4e-53;
Matches 105; Conservative 0; Mismatches 0; Indels 0; Caps 0;

Qy 1 MEGATRYSIMILLYTSDCAVITGACERDVQGAGTCACISLWRMCTPLGRCEEC 60
Db 1 MEGATRYSIMILLYTSDCAVITGACERDVQGAGTCACISLWRMCTPLGRCEEC 60

Qy 61 HPGSHKVPFFRKHHTCPCLPNLLCSRFPDGRYRCMSMDLNINF 105
Db 61 HPGSHKVPFFRKHHTCPCLPNLLCSRFPDGRYRCMSMDLNINF 105

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RESULT 14

US-09-886-242A-2

; Sequence 2, Application US/09886242A

; Patent No. US20020172678A1

; GENERAL INFORMATION:

; APPLICANT: Ferrara, Napoleone

; APPLICANT: Waranabe, Colin

; APPLICANT: Wood, William I.

; TITLE OF INVENTION: EG-VEGF NUCLEIC ACIDS AND POLYPEPTIDES

; FILE REFERENCE: GENNT-1516A

; CURRENT APPLICATION NUMBER: US/09/886,242A

; CURRENT FILING DATE: 2001-06-20

; PRIOR APPLICATION NUMBER: US 6/0/230,978

; PRIOR FILING DATE: 2000-09-07

; PRIOR APPLICATION NUMBER: US 6/0/213,637

; PRIOR FILING DATE: 2000-06-23

; PRIOR APPLICATION NUMBER: US 6/0/145,698

; PRIOR FILING DATE: 1999-07-26

; PRIOR APPLICATION NUMBER: US 6/0/095,146

; PRIOR FILING DATE: 1998-08-11

; PRIOR APPLICATION NUMBER: PCT/US00/32678

; PRIOR FILING DATE: 2000-12-01

; PRIOR APPLICATION NUMBER: PCT/US00/08439

; PRIOR FILING DATE: 2000-03-30

; PRIOR APPLICATION NUMBER: PCT/US00/04914

; PRIOR FILING DATE: 2000-02-24

; PRIOR APPLICATION NUMBER: PCT/US00/00219

; PRIOR FILING DATE: 2000-01-05

; PRIOR APPLICATION NUMBER: PCT/US99/12252

; PRIOR FILING DATE: 1999-06-02

; PRIOR APPLICATION NUMBER: US 6/0/709,238

; PRIOR FILING DATE: 2000-11-08

; Remaining Prior Application data removed - See File Wrapper or PALM.

; SEQ ID NO: 18

; SOFTWARE: FastSEQ for Windows Version 4.0

; SEQ ID NO: 2

; LENGTH: 105

; TYPE: PR

; ORGANISM: Homo sapiens

; FEATURE:

US-09-886-242A-2

Query Match Score 589; DB 9; Length 105;

Best Local Similarity 100.0%; Pred. No. 1.4e-53; Indels 0; Gaps 0;

Matches 105; Conservative 0; Mismatches 0;

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RESULT 15

US-09-889-293A-371

; Sequence 371, Application US/09889293A

; Patent No. US2002017164A1

; GENERAL INFORMATION:

; APPLICANT: Ashkenazi, Avi J.

; APPLICANT: Baker, Kevin P.

; APPLICANT: Botstein, David

; APPLICANT: Desnoyers, Luc

; APPLICANT: Eaton, Dan L.

; APPLICANT: Ferrara, Napoleone

; APPLICANT: Fong, Sherman

; APPLICANT: Gerber, Hanspeter

; APPLICANT: Gerritsen, Mary E.

; APPLICANT: Goddard, Audrey E.

; APPLICANT: Godowski, Paul J.

; APPLICANT: Grimaldi, J. Christopher

; APPLICANT: Gurney, Austin L.

; APPLICANT: Kljavin, Ivay J.

; APPLICANT: Napier, Mary A.

; APPLICANT: Pan, James

; APPLICANT: Paoni, Nicholas F.

; APPLICANT: Roy, Margaret Ann

; APPLICANT: Stewart, Timothy A.

; APPLICANT: Tumas, Daniel

; APPLICANT: Watanabe, Colin K.

; APPLICANT: Williams, P. Mickey

; APPLICANT: Wood, William I.

; APPLICANT: Zhang, Zemin

; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic Acids Encoding the Same

; FILE REFERENCE: P2/30P1C66

; CURRENT APPLICATION NUMBER: US/09/989,293A

; CURRENT FILING DATE: 2001-11-20

; PRIOR APPLICATION NUMBER: 60/049787

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; PRIOR FILING DATE: 1998-07-07
; PRIOR APPLICATION NUMBER: 60/091982
; PRIOR FILING DATE: 1998-07-07
; PRIOR APPLICATION NUMBER: 60/092182
; PRIOR FILING DATE: 1998-07-09

Query Match 1 MRGATRVSIMULJLVTSDCAVITGACERDVQGAGTCACISWLRLGRMCTPLGRGEB 60
Best Local Similarity 100.0%; Score 589; DB 9; Length 105;
Matches 105; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Db 61 HPGSHKVPFRKPKHHTCPCLPNLCSRPPGRRYRSMDLKINF 105

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Search completed: September 20, 2005, 13:13:09  
 Job time : 170 secs

Copyright (c) 1993 - 2005 Compugen Ltd.

OM protein - protein search, using sw model.

Run on: September 20, 2005, 12:42:04 ; Search time 174 Seconds (without alignments) updates/sec 309.013 Million cell

Title: US-10-692-299-2

Perfect score: 589

Sequence: 1 MRGATRVSIMLLTVTSDCA.....CSRPPDGRYRCMSMDLKNNIF 105

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 1612378 seqs, 512079187 residues

Total number of hits satisfying chosen parameters:

1612378

Minimum DB seq length: 0

Maximum DB seq length: 20000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : UniProt 03.0:

1: uniprot\_sprot:\*

2: uniprot\_trembl:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

## SUMMARIES

Result No.	Score	Query	Match	Length	DB	ID	Description
1	589	100.0	105	1	PRKL HUMAN	P58294	homo sapien
2	588	99.8	105	2	Q8TC59	Q8TC59	homo sapien
3	545	92.5	105	1	PRKL RAT	Q8414	rattus norvegicus
4	422	73.3	81	2	Q8K457	Q8K457	mus musculus
5	318	54.0	108	2	Q863H4	Q863H4	bos taurus
6	310.5	52.7	81	1	VPRA DENPO	P25687	dendroaspis
7	298	50.7	96	2	Q8JFQ0	Q8JFQ0	bombina maxima
8	298	50.6	107	1	PRK2 RAT	Q8413	rattus norvegicus
9	298	50.6	128	2	Q863H5	Q863H5	bos taurus
10	287.5	48.8	96	1	BVB BOMVAN	Q8PW66	bombina var
11	282.5	48.0	129	1	PRK2 MOUSE	Q9hC23	homo sapiens
12	277.5	47.1	128	2	PRK2 MOUSE	Q9gx7	mus musculus
13	277.5	47.1	128	2	Q6VJF7	Q6VJF7	rattus norvegicus
14	274.5	46.6	96	2	Q8JF6	Q8JF6	bombina maxima
15	273.5	46.4	96	2	Q8JF8	Q8JF8	bombina maxima
16	273.5	46.4	96	2	Q8JFY1	Q8JFY1	bombina maxima
17	269.5	45.8	96	2	Q8JFX9	Q8JFX9	bombina maxima
18	269.5	45.8	96	2	Q8JFY0	Q8JFY0	bombina maxima
19	266.5	45.2	96	2	Q8JFY2	Q8JFY2	bombina maxima
20	211.2	19.0	96	2	Q8UDX3	Q8UDX3	Q8aux3
21	108.5	18.4	221	2	Q8VJF3	Q8VJF3	Q8vej3
22	107.5	18.3	224	1	DKK4 HUMAN	Q9ubj3	homo sapiens
23	107.5	18.3	350	1	DKC3 CHICK	Q90839	gallus gallus
24	104	17.7	255	2	Q9DDA4	Q9DDA4	xenopus laevis
25	102	17.3	259	1	DKK2 HUMAN	Q9ubj2	homo sapiens
26	101	17.1	259	1	DKC2 MOUSE	Q9gy78	mus musculus
27	101	17.1	259	2	Q8BPW0	Q8BPW0	mus musculus
28	101	17.1	272	1	DKK1 MOUSE	Q54908	mus musculus
29	101	17.1	272	2	Q80UJ5	Q80UJ5	mus musculus
30	100.5	17.1	171	2	Q43532	Q43532	homo sapiens
31	100.5	17.1	215	2	Q8n294	Q8n294	homo sapiens

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

## SUMMARIES

Result No.	Score	Query	Match	Length	DB	ID	Description
1	589	100.0	105	1	PRKL HUMAN	P58294	homo sapien
2	588	99.8	105	2	Q8TC59	Q8TC59	homo sapien
3	545	92.5	105	1	PRKL RAT	Q8414	rattus norvegicus
4	422	73.3	81	2	Q8K457	Q8K457	mus musculus
5	318	54.0	108	2	Q863H4	Q863H4	bos taurus
6	310.5	52.7	81	1	VPRA DENPO	P25687	dendroaspis
7	298	50.7	96	2	Q8JFQ0	Q8JFQ0	bombina maxima
8	298	50.6	107	1	PRK2 RAT	Q8413	rattus norvegicus
9	298	50.6	128	2	Q863H5	Q863H5	bos taurus
10	287.5	48.8	96	1	BVB BOMVAN	Q8PW66	bombina var
11	282.5	48.0	129	1	PRK2 MOUSE	Q9hC23	homo sapiens
12	277.5	47.1	128	2	PRK2 MOUSE	Q9gx7	mus musculus
13	277.5	47.1	128	2	Q6VJF7	Q6VJF7	rattus norvegicus
14	274.5	46.6	96	2	Q8JF6	Q8JF6	bombina maxima
15	273.5	46.4	96	2	Q8JF8	Q8JF8	bombina maxima
16	273.5	46.4	96	2	Q8JFY1	Q8JFY1	bombina maxima
17	269.5	45.8	96	2	Q8JFX9	Q8JFX9	bombina maxima
18	269.5	45.8	96	2	Q8JFY0	Q8JFY0	bombina maxima
19	266.5	45.2	96	2	Q8JFY2	Q8JFY2	bombina maxima
20	211.2	19.0	96	2	Q8UDX3	Q8UDX3	Q8aux3
21	108.5	18.4	221	2	Q8VJF3	Q8VJF3	Q8vej3
22	107.5	18.3	224	1	DKK4 HUMAN	Q9ubj3	homo sapiens
23	107.5	18.3	350	1	DKC3 CHICK	Q90839	gallus gallus
24	104	17.7	255	2	Q9DDA4	Q9DDA4	xenopus laevis
25	102	17.3	259	1	DKK2 HUMAN	Q9ubj2	homo sapiens
26	101	17.1	259	1	DKC2 MOUSE	Q9gy78	mus musculus
27	101	17.1	259	2	Q8BPW0	Q8BPW0	mus musculus
28	101	17.1	272	1	DKK1 MOUSE	Q54908	mus musculus
29	101	17.1	272	2	Q80UJ5	Q80UJ5	mus musculus
30	100.5	17.1	171	2	Q43532	Q43532	homo sapiens
31	100.5	17.1	215	2	Q8n294	Q8n294	homo sapiens

SEQUENCE FROM N.A. ID PRKL HUMAN STANDARD: PRT; 105 AA.

AC P58294; DT 16-OCT-2001 (Rel. 40, Created)

DT 16-OCT-2001 (Rel. 40, Last sequence update)

DT 25-JAN-2005 (Rel. 46, Last annotation update)

DB Prokineticin 1 precursor (Endocrine-gland-derived vascular endothelial growth factor) (EG-VEGF) (Mambakine) (UNQ600/PRO1186).

DB Name=PROKL; GN Homo sapiens (Human).

OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominoidea; Homo; NCBI TaxID=9606; RL Mol. Pharmacol. 59:692-698(2001).

RN [1] SEQUENCE FROM N.A. ID M21419730; PubMed=11259612; RXN Li M., Bullock C.M., Knauer D.J., Ehler F.J., Zhou Q.Y., RA Peale F., Gurney A., Hillian K.J., Ferrara N.; RT "Identification of two prokineticin cDNAs: recombinant proteins potentially contract gastrointestinal smooth muscle." RL Mol. Pharmacol. 59:692-698(2001).

RN [2] SEQUENCE FROM N.A. ID M21419730; PubMed=11259612; RXN LeCouter J., Kovalski J., Foster J., DeGuzman L., DeGuzman L., RA DeGuzman L., Rangell L., Frantz G., Rangell L., Keller G.-A., RA Peale F., Gurney A., Hillian K.J., Ferrara N.; RT "Identification of an angiogenic mitogen selective for endocrine gland endothelium." RL Nature 412:877-884 (2001).

RN [3] SEQUENCE FROM N.A. ID M21419730; PubMed=11259612; RXN Fraser C.; RT "Mambakine, a snake venom related endocrine hormone that controls macrophages." RL Submitted (APR-2001) to the EMBL/GenBank/DBJ databases.

RN [4] SEQUENCE FROM N.A. ID M22887296; PubMed=12975309; DOI=10.1101/qr.1293003; RXN Clark H.P., Gurney A.L., Baker K., Baldwin D., Brush J., RA Chen J., Chow B., Chui C., Crowley C., Curreli B., Deuel B., Dowd P., RA Eaton D., Foster J., Grimaldi C., Gu Q., Hase P.E., Heidens S., RA Huang A., Kim H.S., Klimowski L., Jin Y., Johnson S., Lee J., Lewis L., Liao D., Mark M., Robbie B., Sanchez C., Schoenfeld J., RA Seshagiri S., Simmons L., Wieand R., Watanabe C., Woods K., Xie M.-H., Yansura D., RA Vandelli R., Vranic J., Yau K., Zhang M., Zhang Z., Goddard A., RA Godowski P., Gray A.; RT "The secreted protein discovery initiative (SPDI), a large-scale effort to identify novel human secreted and transmembrane proteins: a bioinformatics assessment." RL Genome Res. 13:2265-2270 (2003).

RN [5] SEQUENCE OF 20-34.

RX	PubMed=15340161; DOI=10.1111/j.1365-2761.2004.004682504;
RA	Zhang Z., Henzel W.J.; "Signal Peptide prediction based on analysis of experimentally verified cleavage sites.";
RT	Protein Sci. 13:2819-2824 (2004).
RL	-1- FUNCTION: Potently contract Gastrointestinal (GI) smooth muscle.
CC	Induces proliferation, migration and fenestration (the formation of membrane discontinuities) in capillary endothelial cells derived from endocrine glands. Has little or no effect on a variety of other endothelial and non-endothelial cell types.
CC	-1- SUBCELLULAR LOCATION: Secreted.
CC	-1- TISSUE SPECIFICITY: Expressed in the steroidogenic glands, ovary, testis, adrenal and placenta.
CC	-1- SIMILARITY: Belongs to the prokinectin family.
CC	-----
CC	This SWISS-PROT entry is copyright. It is produced through a collaboration between the Swiss Institute of Bioinformatics and the EMBL outstation - European Bioinformatics Institute. There are no restrictions on its use by non-profit institutions as long as its content is in no way modified and this statement is not removed. Usage by and for commercial entities requires a license agreement. (See <a href="http://www.ist-sib.ch/announce/">http://www.ist-sib.ch/announce/</a> or send an email to license@ist-sib.ch).
CC	-----
CC	DR: AF333024; AAK49918.1; .
DR	EMBL: AY029225; AAK3311.1; .
DR	HSSP: P25687; 1TMT.
DR	Genev; HGNC:1845; PROK1.
DR	H-InvDB: HIX0000068; .
DR	MIM: 606233; .
DR	InterPro; IPR009523; Prokineticin.
DR	Pfam; PF06607; Prokineticin; 1.
KW	Direct protein sequencing; Growth factor; Mitogen; Signal.
FT	SIGNAL 1 19
FT	CHAIN 20 105 Prokineticin 1.
FT	DISULFID 26 38 By similarity.
FT	DISULFID 32 50 By similarity.
FT	DISULFID 37 78 By similarity.
FT	DISULFID 60 86 By similarity.
FT	*DISULFID 80 96 By similarity.
SQ	SEQUENCE 105 AA; C7E3FPDB30EFB416A CRCE64;
Query Match	100.0%; Score 589; DB 1; Length 105;
Matches	105; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Result	3
ID	PRK1_RAT
ID	PRK1_RAT
AC	Q8R414; STANDARD; PRT; 105 AA.
RP	SEQUENCE FROM N.A.
STRAIN	SPROSQUE-Dawley
RC	DOI=10.1016/S0006-291X(02)00239-5; PubMed=12054613; MEDLINE=2250031;
RX	DT 10-OCT-2003 (Rel. 42, Created)
DT	10-OCT-2003 (Rel. 42, Last sequence update)
DT	05-JUL-2004 (Rel. 44, Last annotation update)
DE	Prokineticin 1 precursor (Endocrine-gland-derived vascular endothelial growth factor) (EG-VEGF).
DE	Name=Prok1; Growth factor (EG-VEGF).
OS	Rattus norvegicus (Rat).
OC	Eukaryote; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Butheria; Rodentia; Sciurognathi; Muridae; Rattus.
NCBI	TaxID=10116;
RN	[1] -
RP	SEQUENCE FROM N.A.
STRAIN	SPROSQUE-Dawley
RC	DOI=10.1016/S0006-291X(02)00239-5; PubMed=12054613; MEDLINE=2250031;
RX	DT 10-OCT-2003 (Rel. 42, Last sequence update)
DT	10-OCT-2003 (Rel. 42, Last annotation update)
RA	Inatomi N., Ohtaki T., Onda H., Fujino M.; Isolation and identification of EG-VEGF/prokineticins as cognate ligands for two orphan G-protein-coupled receptors.;
RA	Abe M., Fukushima S., Watanabe T., Shintani Y., Yamada T., Hinuma S., Biochem. Biophys. Res. Commun. 293:396-402 (2002).
RA	-1- FUNCTION: Potently contract gastrointestinal (GI) smooth muscle. Induces proliferation, migration and fenestration (the formation of membrane discontinuities) in capillary endothelial cells derived from endocrine glands. Has little or no effect on a variety of other endothelial and non-endothelial cell types (By similarity).
CC	-----
CC	SEQUENCE FROM N.A.
TISSUE	Testis;
RC	PubMed=12477932; DOI=10.1073/pnas.242603899;
RX	Strausberg R.L., Feingold E.A., Grouse L.H., Derge J.G., RA

-!- SUBCELLULAR LOCATION: Secreted (By similarity).  
 CC -!- SIMILARITY: Belongs to the prokineticin family.

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 CC

DR EMBL; AY089983; AA09104.1; -.  
 DR HSSP; P22687; 1IMT.  
 DR RGD; 620898; Prok1.  
 DR InterPro; IPR009523; Prokineticin.

DR Pfam; PF06607; Prokineticin\_1.  
 DR Growth Factor; Mitogen; Signal.  
 DR SIGNAL 1 19 Potential.

FT CHAIN 20 105 Prokineticin 1.  
 FT DISULFID 26 38 By similarity.  
 FT DISULFID 32 50 By similarity.

FT DISULFID 37 78 By similarity.  
 FT DISULFID 60 86 By similarity.

FT DISULFID 80 96 By similarity.  
 SQ \* SEQUENCE 105 AA; 11642 MW; 8DF0C42122B1C5B6 CRC64;

Query Match 92.5%; Score 545; DB 1; Length 105;  
 Best Local Similarity 89.5%; Pred. No. 8.6e-48;  
 Matches 94; Conservative 6; Mismatches 5; Indels 0; Gaps 0;

DR 1 MRGATRVSIMLLVTVSDCAVITGACERDYQCGACTCC AISLWLRGLMCTPLGREGBC 60  
 DR 1 MRGAVQVFMMLLAVTSDCAVITGACERDYQCGACTCC AISLWLRGLMCTPLGREGBC 60

DR 1 HPGSHKVPFFRKRKHTCPCLPNLICCSRPFDPGRYRCMSMDLKNMF 105  
 DR 1 HPGSHKVPFFRKRKHTCPCLPNLICCSRPFDPGRYRCMSQDLKNMF 105

DR Q8K457 PRELIMINARY; PRT; 81 AA.  
 DR 01-OCT-2002 (TREMBLrel. 22, Created)  
 DR 01-OCT-2002 (TREMBLrel. 22, Last sequence update)

DR 01-MAR-2004 (TREMBLrel. 26, Last annotation update)  
 DR Prokineticin 1 (Fragment).  
 GN Name=Prok1; Synonyms=PK1;

OS Mus musculus (Mouse).  
 OS Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
 OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.  
 OC NCBI\_TaxID=10090;

DR MGD; MG1:2180370; 1IMT.  
 DR GO; GO:0005576; C extracellular; IDA.  
 DR GO; GO:000187; Activation of MAPK; IDA.  
 DR GO; GO:0007623; Picardian rhythm; TBS.

DR GO; GO:0008284; Positive regulation of cell proliferation; IDA.  
 DR GO; GO:0045765; Pregulation of angiogenesis; IDA.  
 DR InterPro; IPR009523; Prokineticin.  
 DR Pfam; PF06607; Prok1.  
 PT NON-TER 1 1 Snake venom. The amino acid sequence of protein A from Dendroaspis

SQ SEQUENCE 81 AA; 9192 MW; 7BBB3EC6B16A8011 CRC64;

RESULT 5		Query Match 73.3%; Score 432; DB 2; Length 81;	
Best Local Similarity 87.7%; Pred. No. 2e-36;		Matches 71; Conservative 5; Mismatches 5; Indels 0; Gaps 0;	
QY 25 ACERDVOQAGTCC AISLWLRGLMCTPLGREGBC HPGSHKVPFFRKRKHTCPCLPNL 84		Db 1 ACERDVOQAGTCC AISLWLRGLRCKHPTCPCLPSPL 60	
QY 85 LCSRFPDGRYRCMSMDLKNMF 105		Db 61 LCSRFPDGRYRCFPDLQVANF 81	
Q863H4 PRELIMINARY; PRT; 108 AA.		Q863H4 PRELIMINARY; PRT; 108 AA.	
AC Q863H4; PRELIMINARY; PRT; 108 AA.		AC Q863H4; PRELIMINARY; PRT; 108 AA.	
DR 01-JUN-2003 (TREMBLrel. 24, Created)		DR 01-JUN-2003 (TREMBLrel. 24, Last sequence update)	
DR 01-MAR-2004 (TREMBLrel. 26, Last annotation update)		DR 01-MAR-2004 (TREMBLrel. 26, Last annotation update)	
DR BvB prokineticin 2-like protein splice variant.		DR BvB prokineticin 2-like protein splice variant.	
DR Bos taurus (Bovine). Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Cetartiodactyla; Pecora; Bovidae; Bovinae; Bos NCBITaxID=9513;		DR Bos taurus (Bovine). Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Cetartiodactyla; Pecora; Bovidae; Bovinae; Bos NCBITaxID=9513;	
RN [1] SEQUENCE FROM N.A.		RN [1] SEQUENCE FROM N.A.	
RC TISSUE=Testis; MEDLINE=22612805; PubMed=12728244; DOI=10.1038/sj.embo.embor.embor830;		RC TISSUE=Testis; MEDLINE=22612805; PubMed=12728244; DOI=10.1038/sj.embo.embor.embor830;	
RX Kaiser A.; Winklmayr M.; Lepperding G.; Kreil G.; "The AVIT protein family"; EMBO Rep. 4:469-473 (2003).		RX Kaiser A.; Winklmayr M.; Lepperding G.; Kreil G.; "The AVIT protein family"; EMBO Rep. 4:469-473 (2003).	
RT EMBL; AV192558; AAP31307.1; -.		RT EMBL; AV192558; AAP31307.1; -.	
DR P25687; 1IMT.		DR P25687; 1IMT.	
DR InterPro; IPR009523; Prokineticin.		DR InterPro; IPR009523; Prokineticin.	
DR Pfam; PF06607; Prok1.		DR Pfam; PF06607; Prok1.	
SQ SEQUENCE 108 AA; 11672 MW; C00410399A9B215E CRC64;		SQ SEQUENCE 108 AA; 11672 MW; C00410399A9B215E CRC64;	
QY 54.0%; Score 318; DB 2; Length 108;		QY 54.0%; Score 318; DB 2; Length 108;	
Best Local Similarity 51.9%; Pred. No. 1e-24;		Best Local Similarity 51.9%; Pred. No. 1e-24;	
Matches 54; Conservative 15; Mismatches 27; Indels 8; Gaps 1;		Matches 54; Conservative 15; Mismatches 27; Indels 8; Gaps 1;	
QY 1 MRGATRVSIMLLVTVSDCAVITGACERDYQCGACTCC AISLWLRGLMCTPLGREGBC 52		QY 1 MRGATRVSIMLLVTVSDCAVITGACERDYQCGACTCC AISLWLRGLMCTPLGREGBC 52	
Db 1 MRSRCAILLLILLPLLTPPAGDAVITGACERDYQCGACTCC AISLWLRGLMCTPLGREGBC 50		Db 1 MRSRCAILLLILLPLLTPPAGDAVITGACERDYQCGACTCC AISLWLRGLMCTPLGREGBC 50	
DR HSSP; P25687; 1IMT.		DR HSSP; P25687; 1IMT.	
DR InterPro; IPR009523; Prokineticin.		DR InterPro; IPR009523; Prokineticin.	
DR Pfam; PF06607; Prok1.		DR Pfam; PF06607; Prok1.	
SQ SEQUENCE FROM N.A.		SQ SEQUENCE FROM N.A.	
STRAIN=C57BL/6;		STRAIN=C57BL/6;	
MEDLINE=22022134; PubMed=12024205; DOI=10.1038/417405a;		MEDLINE=22022134; PubMed=12024205; DOI=10.1038/417405a;	
Cheng M.Y., Bullock C.M., Li C., Lee A.G., Bernatz J.C., Belluzzi J., Weaver D.R., Leslie F.M., Zhou Q.Y.; "Prokineticin 2 transmits the behavioural circadian rhythm of the suprachiasmatic nucleus"; Nature 417:405-410 (2002).		Cheng M.Y., Bullock C.M., Li C., Lee A.G., Bernatz J.C., Belluzzi J., Weaver D.R., Leslie F.M., Zhou Q.Y.; "Prokineticin 2 transmits the behavioural circadian rhythm of the suprachiasmatic nucleus"; Nature 417:405-410 (2002).	
DR MGD; MG1:2180370; 1IMT.		DR MGD; MG1:2180370; 1IMT.	
GO; GO:0005576; C extracellular; IDA.		GO; GO:0005576; C extracellular; IDA.	
GO; GO:000187; Activation of MAPK; IDA.		GO; GO:000187; Activation of MAPK; IDA.	
GO; GO:0007623; Picardian rhythm; TBS.		GO; GO:0007623; Picardian rhythm; TBS.	
GO; GO:0008284; Positive regulation of cell proliferation; IDA.		GO; GO:0008284; Positive regulation of cell proliferation; IDA.	
GO; GO:0045765; Pregulation of angiogenesis; IDA.		GO; GO:0045765; Pregulation of angiogenesis; IDA.	
DR InterPro; IPR009523; Prokineticin.		DR InterPro; IPR009523; Prokineticin.	
DR Pfam; PF06607; Prok1.		DR Pfam; PF06607; Prok1.	
PT NON-TER 1 1 Snake venom. The amino acid sequence of protein A from Dendroaspis polylepis (black mamba) venom.		PT NON-TER 1 1 Snake venom. The amino acid sequence of protein A from Dendroaspis polylepis (black mamba) venom.	
SQ SEQUENCE 81 AA; 9192 MW; 7BBB3EC6B16A8011 CRC64;		SQ SEQUENCE 81 AA; 9192 MW; 7BBB3EC6B16A8011 CRC64;	

RL Hoppe-Seyler's Z. Physiol. Chem. 361:1787-1794 (1980).  
 [2]  
 RN CHARACTERIZATION.  
 RX MEDLINE=20036442; PubMed=10567694; DOI=10.1016/S0014-5733(99)01459-3;  
 RA Schweitz H., Pascaud P., Dioc'h S., Moinier D., Lazdunski M.;  
 RT "MTRI, a black mamba toxin with a new and highly potent activity on  
 intestinal contraction.";  
 RT PDBS Lett. 461:183-188 (1998).  
 RN  
 RP STRUCTURE BY NMR.  
 RC TISSUE=venom; PubMed=9761684; DOI=10.1006/jmbi.1998.2057;  
 RX MEDLINE=98437381; PubMed=9761684; DOI=10.1006/jmbi.1998.2057;  
 RA Boisbouvier J., Albrand J.-P., Blackledge M., Jaquinod M.,  
 RA Schweitz H., Lazdunski M., Marion D.;  
 RT "A structural homologue of colipase in black mamba venom revealed by  
 NMR floating disulphide bridge analysis.";  
 RL J. Mol. Biol. 283:1205-219 (1998).  
 CC -|- FUNCTION: Potently contract gastrointestinal (GI) smooth muscle.  
 CC -|- SUBCELLULAR LOCATION: Secreted.  
 CC -|- SIMILARITY: Belongs to the prokinectin family.  
 DR PDB; 1MTR; NMR; @1-81.  
 DR InterPro; IPR009523; Prokineticin.  
 DR Pfam; PF06607; Prokineticin; 1.  
 DR 3D-structure; Direct protein sequencing; Toxin.  
 KW DISULFID; 7 19  
 FT DISULFID 13 31  
 FT DISULFID 18 60  
 FT DISULFID 41 68  
 FT DISULFID 62 78  
 PT VARIANT 73 73  
 FT CONFLICT 18 18  
 FT CONFLICT 22 22  
 SQ SEQUENCE 81 AA; 8645 MW; 6CC01368441572044 CRC64;  
 Query Match Score 52.7%; Best Local Similarity 62.8%; Pred. No. 4.5e-24;  
 Matches 49; Conservative 14; Mismatches 14; Indels 1; Gaps 1;  
 QY 20 AVITGACERDQGAGTCGAISIWLRLGRMCTPLGRGEECHPGSHKVPFFRK-HHTC 78  
 DB - 1. AVITGACERDQCGKGTCGAVSLWIKSYRVCPTVGTSEDCHPASHKIPFSQRKMEHTC 60  
 QY 79 PCLPNLILCSRFPDGRYRC 96  
 DB - 61 PCAPNLACYQTSPKKFKC 78

RESULT 7  
 Q8BFQ0 PRELIMINARY; PRT; 96 AA.  
 ID Q8BFQ0  
 AC Q8BFQ0  
 DT 01-OCT-2002 (TREMBrel. 22, Created)  
 DT 01-MAR-2004 (TREMBrel. 22, Last sequence update)  
 DE Bv8 protein homolog 2.  
 OC Bombina maxima (Giant fire-bellied toad) (Chinese red belly toad).  
 OC Fukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
 OC Amphibia; Batrachia; Anura; Archeobatrachia; Bombinatoridae; Bombina.  
 OC NCBI\_TaxID=161274;  
 RN  
 RP SEQUENCE FROM N.A.  
 RC TISSUE=skin secretions; PubMed=12628381; DOI=10.1016/S1096-4959(02)00294-4;  
 RA Lai R., Liu H., Lee W.H., Zhang Y.;  
 RT Two novel Bv8-like peptides from skin secretions of the toad Bombina  
 maxima.";  
 RL Comp. Biochem. Physiol. B, Biochem. Mol. Biol. 134:509-514 (2003).  
 DR HSSP; P25687; 1IMT.  
 DR EMBL; A011091; A003822.1; -.  
 DR InterPro; IPR009523; Prokineticin.  
 DR Pfam; PF06607; Prokineticin; 1.  
 KW Biological rhythms; Neuropeptide; Signal.  
 FT SIGNAL 1 26  
 SQ SEQUENCE 96 AA; 10198 MW; EC4BA55FE49B2F0 CRC64;  
 FT CHAIN 27 107 Prokineticin 2.

Query Match Score 50.7%; Best Local Similarity 53.6%; Pred. No. 8.8e-23;  
 Matches 52; Conservative 16; Mismatches 28; Indels 9 1; Gaps 1;  
 QY 1 MRGATRYSIMILLYTVSDCAVITGACERDQGAGTCGAISIWLRLGRMCTPLGRGEBC  
 DB 1 MKCQAVVILVIAVSHGAVITGACDRLQGSGCCAASLWSRNIRFCVPLGNNGEBC 60  
 QY 61 HPGSHKIPPFKPKHHTCPCPLNLGSRSRFPDGRYRC 97  
 DB 61 HDASHKVPYNGRGLSSLCPCRSGLTOSKSGE-KFOCS 96

RESULT 8  
 PRK2\_RAT  
 ID PRK2\_RAT  
 AC Q8R413;  
 DT 28-FEB-2003 (Rel. 41, Created)  
 DT 05-JUL-2004 (Rel. 44, Last annotation update)  
 DE Prokineticin 2 precursor (PK2).  
 GN Name=Prok2; Synonyms=Bv8;  
 OS Rattus norvegicus (Rat).  
 OC Mammalia; Butheria; Rodentia; Chordata; Craniata; Vertebrata; Euteleostomi;  
 OC Murinae; Sciurognathi; Muridae; Rattus.  
 OX NCBI\_TaxID=10116;  
 RN [1];  
 RN SEQUENCE FROM N.A.  
 RP STRAIN=Sprague-Dawley;  
 RC MEDLINE=22050031; PubMed=12054613; DOI=10.1016/S0006-291X(02)00239-5;  
 RA Masuda Y., Takatsu Y., Terao Y., Kunano S., Ishibashi Y., Suenaga M.,  
 RA Abe M., Fukushima S., Watanabe T., Shintani Y., Yamada T., Hinuma S.,  
 RA Inatomi N., Ohfaki T., Onda H., Fujino M.;  
 RT "Isolation and identification of Bv-VEGF/prokinetics as cognate  
 ligands for two orphan G-protein-coupled receptors.";  
 RL Biochem. Biophys. Res. Commun. 293:396-402 (2002).  
 RN [2];  
 RN EFFECT ON CIRCADIAN LOCOMOTOR ACTIVITY.  
 RP MEDLINE=22022134; PubMed=12024206; DOI=10.1038/417405a;  
 RA Cheng M.Y., Bullock C.M., Li C., Lee A.G., Bemak J.C., Belluzzi J.,  
 RA Weaver D.R., Leslie P.M., Zhou Q.-Y.;  
 RA "Prokineticin 2 transmits the behavioural circadian rhythm of the  
 RT suprachiasmatic nucleus";  
 RL Nature 417:405-410 (2002).  
 CC -|- FUNCTION: May function as an output molecule from the  
 CC suprachiasmatic nucleus (SCN) that transmits behavioral circadian  
 CC rhythm. May also function locally within the SCN to synchronize  
 CC output. Potently contracts gastrointestinal (GI) smooth muscle (By  
 CC similarity).  
 CC -|- TISSUE SPECIFICITY: Expressed at high levels in testis and at  
 CC lower levels in brain, lung, ovary, spleen, thymus and uterus.  
 CC -|- INDUCTION: Activated by CLOCK and BMAL1 heterodimers and light;  
 CC inhibited by Period genes (PER1, PER2 and PER3) and cryptochrome  
 CC genes (CRY1 and CRY2) (Probable).  
 CC -|- SIMILARITY: Belongs to the prokinectin family.  
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 DR EMBL; AY089384; AAM09105.1; -.  
 DR HSSP; P25687; 1IMT.  
 DR InterPro; IPR009523; Prokineticin.  
 DR Pfam; PF06607; Prokineticin; 1.  
 KW Biological rhythms; Neuropeptide; Signal.  
 FT SIGNAL 1 26  
 SQ SEQUENCE 96 AA; 10198 MW; EC4BA55FE49B2F0 CRC64;

Db	121	RYTC	124
	RESULT 10		
	BV8_BOMVIA	STANDARD;	
	ID Q9PME6;		
	AC Q9PME6;		
	DT 16-OCT-2001 (Rel. 40, Created)		
	DT 16-OCT-2001 (Rel. 40, Last sequence update)		
	DT 05-JUL-2004 (Rel. 44, Last annotation update)		
	DE Protein Bv8 precursor.		
	OS Bombina variegata (Yellow-bellied toad).		
	OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;		
	OC Amphibia; Batrachia; Anura; Archeobatrachia; Bombinatoridae; Bombina.		
	NCBI_TaxID=8348;		
	OX NCBITaxonID=8348;		
	RN [1]		
	RP SEQUENCE FROM N.A.; AND PARTIAL SEQUENCE.		
	RC TISSUE=Skin secretion;		
	RX MEDLINE=9934621; PubMed=10422759; DOI=10.1016/s0014-2999(99)00229-0;		
	RA Molay C., Wechselberger C., Migmogna G., Negri L., Melchiorri P.,		
	RA Barra D., Kreil G.,		
	RT "Bv8, a small protein from frog skin and its homologue from snake RT venom induce hyperalgesia in rats."		
	RL Eur. J. Pharmacol. 374:189-196 (1999).		
	CC -!- FUNCTION: Potentially contract gastrointestinal (GI) smooth muscle.		
	CC -!- Induces hyperalgesia.		
	CC -!- SUBCELLULAR LOCATION: Secreted.		
	CC -!- SIMILARITY: Belongs to the prokinectin family.		
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	CC DR EMBL; APF168730; ADD45816.1; -.		
	CC DR HSSP; P25687; 1IMT.		
	CC DR InterPro; IPR009533; Prokineticin.		
	CC DR Pfam; PF06607; Prokineticin_1.		
	CC KW Direct protein sequencing; Signal.		
	CC FT SIGNAL 1 19		
	CC FT CHAIN 20 96		Protein Bv8.
	CC FT DISULFID 26 38		By similarity.
	CC FT DISULFID 32 50		By similarity.
	CC FT DISULFID 37 78		By similarity.
	CC FT DISULFID 60 86		By similarity.
	CC FT DISULFID 80 95		By similarity.
	CC SQ SEQUENCE 96 AA; 10102 MW; A12490A437609B4 CRC64;		
	CC Query Match 48.8%; Score 287.5; DB 1; Length 96;		
	CC Best Local Similarity 50.5%; Pred. No. 1.2e-21; Mismatches 49; Conservative 18; Indels 1; Gaps		
	CC QY 1 MRGATRVSIMLLIVTVSDCAVITGACERDYQCGAGTCACISLWLRGLRMCTPLGRGEEC		
	CC DB 1 MKCPAQIVVLLAFSHGAVITGACDQDVKQGSGTCACASAWSNRIFCPLGNSGDC		
	CC QY 61 HPGSHKVPFFRKHTCPCLPNLJCSRPDPGRFRC 97		
	CC DB 61 HPASHKVPIDGKRUSSLCPKSGLTCSKSGE-KFKCS 96		
	RESULT 11		
	PRC2_HUMAN	STANDARD;	
	ID Q9HCZ3;		
	AC Q9HCZ3;		
	DT 16-OCT-2001 (Rel. 40, Created)		
	DT 16-OCT-2001 (Rel. 40, Last sequence update)		
	DT 25-JAN-2005 (Rel. 46, Last annotation update)		
	DE Prokineticin 2 precursor (PRC2) (protein Bv8 homolog).		
	GN Name=PROK2; Synonyms=Bv8;		
Qy	1 MRGATRVSIMLLIVTVSDCAVITGACERDYQCGAGTCACISLWLRGLRMCTPLGRGEEC		
Db	1 MRSRRCARILLLLPLLLTPPLLTTPAGDAAVITGACDRDPCGGAGCAVSLWVKSIRICITP 60		
Qy	53 LGREGEECHPGSH-----KPFERKRKHTCPCLPNLJCSRPDPGRFRC 92		
Db	61 MGKVGDSCHPMTKRNHGNGRQERKRKRRKCKPFLGRRMHTCPCLPGLACSRSTSFN 120		
Qy	93 RYTC 96		

OS	Homo sapiens (Human)	Protein	Protein
QC	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;	Protein	Protein
OC	Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.		
OR	NCBI_TaxID:9606;		
[1]	SEQUENCE OF 5-129 FROM N.A. (ISOFORM 1).		
RC	TISSUE=Testis;		
RX	Medline=20047850; PubMed=10580115; DOI=10.1016/S0014-5793(99)01473-8;		
RX	Wechselberger C., Puglisi R., Lepperdinger G., Boitani C., Kreil G.; "The mammalian homologue of Bv8 from frog skin is mainly expressed in spermatocytes.", FEBS Lett. 462:177-181(1998).		
[2]	SEQUENCE FROM N.A. (ISOFORM 2).		
RX	Medline=21160229; PubMed=11259612;		
RX	Li M., Bullock C.M., Knauer D.J., Ehler F.J., Zhou Q.-Y.; "Identification of two prokineticin cDNAs: recombinant proteins potently contract gastrointestinal smooth muscle.", Mol. Pharmacol. 59:632-639(2001).		
[3]	SEQUENCE OF 28-42.		
RX	Medline=21530161; DOI=10.1110/pb.04682504;		
RX	Zhang Z., Henzel W.J.; "Protein prediction based on analysis of experimentally verified cleavage sites.", Protein Sci. 13:2819-2824(2004).		
RX	- - FUNCTION: May function as an output molecule from the suprachiasmatic nucleus (SCN) that transmits behavioral circadian rhythm. May also function locally within the SCN to synchronize output. Potently contracts gastrointestinal (GI) smooth muscle.		
CC	- - SUBCELLULAR LOCATION: Secreted.		
CC	- - ALTERNATIVE PRODUCTS:		
CC	Event=Alternative splicing; Named isoforms=2; Name=1; IsoId=09HC23-1; Sequence=Displayed;		
CC	IsoId=09HC23-2; Sequence=vSP 005219;		
CC	- - TISSUE SPECIFICITY: Expressed in the testis and, at low levels, in the small intestine.		
CC	- - INDUCTION: Activated by CLOCK and BMAL1 heterodimers and light; inhibited by Period genes (PER1, PER2 and PER3) and cryptochromes (CRY1 and CRY2) (Probable).		
CC	- - SIMILARITY: Belongs to the prokineticin family.		
CC	• This SWISS-PROT entry is copyright. It is produced through a collaboration between the Swiss Institute of Bioinformatics and the EMBL outstation - the European Bioinformatics Institute. There are no restrictions on its use by non-profit institutions as long as its content is in no way modified and this statement is not removed. Usage by and for commercial entities requires a license agreement (See <a href="http://www.isb-sib.ch/announce/">http://www.isb-sib.ch/announce/</a> or send an email to license@isb-sib.ch).		
EMBL; AEMB; AF333025; AAC19919.1; -;			
DR	HSSP; E25687; 1IMT; Genew; HGNC:18455; PROK2.		
DR	MIM; 607002; -;		
DR	GO; GO:0005576; C: extracellular; TAS.		
DR	GO; GO:0001664; F: G-protein-coupled receptor binding; TAS.		
DR	GO; GO:0001587; F: activation of MAPK; TAS.		
DR	GO; GO:0001525; F: angiogenesis; IDA.		
DR	GO; GO:0006316; F: anti-apoptosis; IDA.		
DR	GO; GO:0008283; F: cell proliferation; IDA.		
DR	GO; GO:0005935; F: chemotaxis; IDA.		
DR	GO; GO:0007204; F: cytosolic calcium ion concentration elevation; TAS.		
DR	GO; GO:0007186; F: G-protein coupled receptor protein signalin. . . ; NAS.		
DR	GO; GO:0006594; F: inflammatory response; NAS.		
DR	GO; GO:0019233; F: perception of pain; TAS.		
DR	GO; GO:0045987; F: positive regulation of smooth muscle contra. . . ; IDA.		
DR	GO; GO:0007283; F: spermatogenesis; IMP.		
DR	InterPro; IPR009523; Prokineticin.		
DR	Protein; PF06607; Prokineticin 1.		
DR	Alternatively splicing; Biological process; Direct protein sequencing.		
DR	KR		

RA	Dalla E., Dragani T.A., Fletcher C.P., Forrest A., Frazer K.S.,	DR	GO; GO:0007623; P:circadian rhythm; IDA.
RA	Gaasterland T., Garibaldi M., Giassi C., Hirokawa N., Jackson I.J., Gough J., Gough E.D.,	DR	GO; GO:0007204; P:cytosolic calcium ion concentration elevation; ISS.
RA	Grimmond S., Gustafich S., Hirokawa N., Jackson I.J., Jarvis E.D.,	DR	GO; GO:0007186; P:G-protein coupled receptor protein signalin. . ; ISS.
RA	Kanai A., Kawaji H., Kawasawa Y., Kedierski R.M., King B.L.,	DR	GO; GO:0016554; P:inflammatory response; ISS.
RA	Konagaya A., Kurochkin I.V., Lee Y., Lenhard B., Lyons P.A.,	DR	GO; GO:0019233; P:perception of pain; ISS.
RA	Magliott D.R., Malaisi L., Marchionni L., McKenzie L., Miki H.,	DR	GO; GO:0045987; P:positive regulation of smooth muscle contra. . ; ISS.
RA	Nagashima T., Numata K., Okido T., Pava W.J., Pertea G., Pesole G.,	DR	GO; GO:007283; P:spermatogenesis; ISS.
RA	Petrovsky N., Pillai R., Pontius J.U., Qi D., Ramachandran S.,	DR	InterPro; IPR00923; Prokinecin.
RA	Ravasi T., Reed J.C., Reed D.J., Reid J., Ring B.Z., Ringwald M.,	DR	Pfam; PF06607; Prokinecin; 1.
RA	Sandelin A., Schneider C., Semple C.A., Setou M., Shimada K.,	KW	Alternative splicing; Biological rhyhms; Neuropeptide; Signal.
RA	Sultana R., Takenaka Y., Taylor M.S., Teasdale D., Tomita M.,	FT	Prokineticin 1
RA	Verardo R., Wagner L., Wahlsstedt C., Wang Y., Watanabe Y., Wells C.,	FT	Prokineticin 2.
RA	Wilming L.G., Wynshaw-Boris A., Yanagisawa M., Yang I.,	FT	Prokineticin 2.
RA	Yuan Z., Zavolan M., Zhu Y., Zimmer A., Carninci P., Hayatsu N.,	FT	Prokineticin 2.
RA	Hirozane-Kishikawa T., Konno H., Nakamura M., Sakazume N., Sato K.,	FT	Prokineticin 2.
RA	Shiraki T., Waki K., Kawai J., Aizawa K., Arakawa T., Fukuda S.,	FT	Prokineticin 2.
RA	Hara A., Hashimoto W., Imotani K., Ishii Y., Ichin M., Kagawa I.,	FT	Prokineticin 2.
RA	Miyazaki A., Sakai K., Sasaki D., Shihata Y., Shinagawa A.,	FT	Prokineticin 2.
RA	Yasunishi A., Yoshino M., Waterston R., Lander E.S., Rogers J.,	FT	Prokineticin 2.
RA	Birney E., Hayashizaki Y.,	FT	SHVANGQERREKARRKRKKEVFWGRMMHHTCPCLPGLAC
RT	"Analysis of the mouse transcriptome based on functional annotation of 60,770 full-length cDNAs."	FT	LRTSPEPTICLARK -> VSVCGLYPSH (in isoform 3).
RT	Nature 420:563-573 (2002).	FT	/FTId=VSP_005220.
CC	-!- FUNCTION: May function as an output molecule from the suprachiasmatic nucleus (SCN) that transmits behavioral circadian rhythm. May also function locally within the SCN to synchronize output. Potently contracts gastrointestinal (GI) smooth muscle (By similarity).	SQ	SEQUENCE 128 AA; 14185 MW; 5F08BA177PDB58C CRC64;
CC	-!- ALTERNATIVE PRODUCTS:	Query Match	Score 47.1%; Best Local Similarity 40.7%; Pred. No. 1.6e-20; Mismatches 25; Indels 29; Gaps 2;
CC	-!- Event=Alternative splicing; Named isoforms=3;	Qy	3 GATRVSIMLLVTVV------SDCAVITGACERDVOGAGTCCTCAISLWLRLGRMTCPLG 54
CC	-!- IsoID=9QX0U1; Sequence=Displayed;	Db	2 GDRCPAPLLLPLLLPLUTTPAGDAAVITGACDKDSOOGGMCCAVSIWWSKRSICTPMG 61
CC	-!- IsoID=9QX0U1; Sequence=VSP_005220;	Qy	55 REGEBCPFGSHK -----VPPFRKRKHTCPCLPGLNLLCSRFDPGR 93
CC	-!- Name=2; Synonyms=Bv8-a;	Db	62 QVGDSCHPPLTRKSHVANGRQERRRAKRKRKKEVFWGRMMHHTCPCLPGLACLRSTSFRN 121
CC	-!- Name=3; IsoID=9QX0U1-2; Sequence=VSP_005220;	Qy	94 YRC 96
CC	-!- TISSUE SPECIFICITY: Expressed in the SCN and among a few other discrete brain areas, including the islands of Calleja, media 1 preoptic area of the hypothalamus and the shell of the nucleus accumbens. Highly expressed in testis. In the SCN, expression subjected to high amplitude of circadian oscillation.	Db	122 FIC 124
CC	-!- DEVELOPMENTAL STAGE: Expressed in mid-late pachytene spermatocytes at the stages VII, VIII and IX of the seminiferous epithelial cycle.	RESULT 13	QEV8J7 ID Q6V8J7 PRELIMINARY; PRT: 128 AA.
CC	-!- INDUCTION: Activated by CLOCK and BMAL1 heterodimers and light; inhibited by Period genes (PER1, PER2 and PER3) and cryptochrome genes (CRY1 and CRY2).	CC	AC Q6V8J7; DT 05-JUL-2004 (TRIMBLrel. 27, Created)
CC	-!- SIMILARITY: Belongs to the prokinecin family.	CC	DT 05-JUL-2004 (TRIMBLrel. 27, Last sequence update)
CC	This SWISS-PROT entry is copyright. It is produced through a collaboration between the Swiss Institute of Bioinformatics and the EMBL outstation - the European Bioinformatics Institute. There are no restrictions on its use by non-profit institutions as long as its content is in no way modified and this statement is not removed. Usage by and for commercial entities requires a license agreement. (See <a href="http://www.isb-sib.ch/announce/">http://www.isb-sib.ch/announce/</a> or send an email to license@isb-sib.ch).	CC	DT 05-JUL-2004 (TRIMBLrel. 27, Last annotation update)
CC	Rattus norvegicus (Rat).	CC	DB Prokinecin 2 beta.
CC	Mammalia; Eutheria; Rodentia; Muridae; Murinae; Rattus.	CC	GN Name=PK2beta;
CC	NCBI_TaxID=10116; [1]	CC	ORPfam; PF06607; Prokinecin; 1.
CC	RN SEQUENCE FROM N.A.	CC	SEQUENCE 128 AA; 14223 MW; 67030CC1A7D59166 CRC64;
CC	RP STRAIN-Sprague-Dawley;	CC	RC STRAIN-Sprague-Dawley;
CC	DR Q6V8J7; DT 05-JUL-2004 (TRIMBLrel. 27, Created)	CC	RC STRAIN-Sprague-Dawley;
CC	RA Chen J., Sutton S., Ruei C., Wilson S.J., Lovenberg T.W., Liu C.;	CC	RA Chen J., Sutton S., Ruei C., Wilson S.J., Lovenberg T.W., Liu C.;
CC	RL Submitted (JUL-2003) to the EMBL/GenBank/DBJ databases.	CC	RL Submitted (JUL-2003) to the EMBL/GenBank/DBJ databases.
CC	DR EMBL; AY343322; AAR06924; 1; -	CC	DR EMBL; AY343322; AAR06924; 1; -
CC	DR InterPro; IPR00523; Prokinecin.	CC	DR InterPro; IPR00523; Prokinecin.
CC	DR Pfam; PF06607; Prokinecin; 1.	CC	DR Pfam; PF06607; Prokinecin; 1.
CC	SQ SEQUENCE 128 AA; 14223 MW; 67030CC1A7D59166 CRC64;	CC	DR Pfam; PF06607; Prokinecin; 1.
CC	RP STRAIN-Sprague-Dawley;	CC	DR Pfam; PF06607; Prokinecin; 1.
CC	DR GO; GO:0005576; C:extracellular; ISS.	CC	DR GO; GO:0005576; C:extracellular; ISS.
CC	DR EMBL; AF182055; AF15280.1; -	CC	DR EMBL; AF182055; AF15280.1; -
CC	DR EMBL; AF182056; AF15280.1; -	CC	DR EMBL; AF182056; AF15280.1; -
CC	DR EMBL; AF182058; AG09339.1; -	CC	DR EMBL; AF182058; AG09339.1; -
CC	DR EMBL; AF182067; AG09339.1; JOINED.	CC	DR EMBL; AF182067; AG09339.1; JOINED.
CC	DR EMBL; AF487280; AM49572.1; -	CC	DR EMBL; AF487280; AM49572.1; -
CC	DR HSSP; P25687; 1IMT.	CC	DR HSSP; P25687; 1IMT.
CC	DR MGD; MGJ:1354178; Prok2.	CC	DR MGD; MGJ:1354178; Prok2.
CC	DR GO; GO:0005576; P:G-protein coupled receptor binding; ISS.	CC	DR GO; GO:0005576; P:G-protein coupled receptor binding; ISS.
CC	DR CO; GO:0001654; P:activation of MAPK; ISS.	CC	DR CO; GO:0001654; P:activation of MAPK; ISS.
CC	DR GO; GO:000187; P:perception of pain; ISS.	CC	DR GO; GO:000187; P:perception of pain; ISS.
CC	DR CO; GO:0006916; P:anti-apoptosis; ISS.	CC	DR CO; GO:0006916; P:anti-apoptosis; ISS.
CC	DR CO; GO:0008383; P:cell proliferation; ISS.	CC	DR CO; GO:0008383; P:cell proliferation; ISS.
CC	DR GO; GO:0006935; P:chemotaxis; ISS.	CC	DR GO; GO:0006935; P:chemotaxis; ISS.

Qy 67 -----VPFFRKHKHTCPCLPNLCSRFPDGRYRC 96  
 DB 77 ANGQERRRRAKRRKKEVPPGRMHTCPGLACRTSFNRPIC 124

RESULT 14

Q8JFE6 PRELIMINARY; PRT; 96 AA.

ID Q8JFE6 (TREMBrel. 22, Created)  
 DT 01-OCT-2002 (TREMBrel. 22, Last sequence update)  
 DT 05-JUL-2004 (TREMBrel. 27, Last annotation update)  
 DE Bm8-a protein precursor (Bv8 protein homolog 1).  
 OS Bombina maxima (Giant fire-bellied toad) (Chinese red belly toad).  
 Organism: Metazoa; Chordata; Craniata; Vertebrata; Buteleostomi; Amphibia; Batrachia; Anura; Archeobatrachia; Bombinatoridae; Bombina.  
 OX NCBI\_TaxID=161274; [1]

SEQUENCE FROM N.A.

PT TISSUE=skin; Chen T., Farragher S., Bjourson A.J., Orr D.F., Rao P., Shaw C.; RT "Granular gland transcriptomes in stimulated amphibian skin secretions"; BL J. Biochem. 371:125-130 (2003). [2]

RN 371:125-130 (2003).

RP SEQUENCE FROM N.A.

RC TISSUE=skin secretions;

RX TISSUE=S22515712; PubMed=16628381; DOI=10.1016/S1096-4959(02)00294-4;

RA Lai R., Liu H., Lee W.H., Zhang Y.; RT "Two novel Bv8-like peptides from skin secretions of the toad Bombina maxima"; RT Comp. Biochem. Physiol. B, Biochem. Mol. Biol. 134:509-514 (2003).  
 DR EMBL; AJ440230; CD29340.1.; DR EMBL; AF411030; AN03841.1.; DR HSSP; P25687; 1IMT.  
 DR InterPro; IPR009533; Prokineticin.  
 DR Pfam; PF06607; Prokineticin\_1.  
 DR SIGNAL; PRT; 96 AA.

KW SIGNAL. FT CHAIN 20 96 AA; 1017 MW; 2269AA8654B18A6 CRC64; SQ SEQUENCE 96 AA; 1017 MW; 2269AA8654B18A6 CRC64;

Query Match 48;保守性 49.5%; Score 274.5%; DB 2%; Length 96;

Best Local Similarity 49.5%; Pred. No. 2.4e-20; Mismatches 31; Indels 1; Gaps 1;

Matches 48; Conservative 17; Mismatches 31; Indels 1; Gaps 1;

Qy 1 MRGATRVSMLLIVTSDAVITGACEDVQCGATCCTAISLWLRGMRMCTPLGRGEEEC 60  
 DB 1 MKCFAQIVVLLVIAFSGAVITGCDRDAQCGSGTCAASAFSRNIRFCVPLGNNGEBC 60

Qy 61 HPGSHKVPFFRKHKHTCPCLPNLCSRFPDGRYRCs 97  
 DB 61 HPASHKVPFFRKHKHTCPCLPNLCSRFPDGRYRCs 97

Qy 61 HPGSHKVPFFRKHKHTCPCLPNLCSRFPDGRYRCs 97  
 DB 61 HPASHKVPFFRKHKHTCPCLPNLCSRFPDGRYRCs 97

Search completed: September 20, 2005, 12:58:58  
 Job time : 176 secs

RESULT 15

Q8JFX8 PRELIMINARY; PRT; 96 AA.

ID Q8JFX8 (TREMBrel. 22, Created)  
 DT 01-OCT-2002 (TREMBrel. 22, Last sequence update)  
 DT 01-OCT-2002 (TREMBrel. 22, Last annotation update)  
 DE Bm8-f protein precursor.  
 OS Bombina maxima (Giant fire-bellied toad) (Chinese red belly toad).  
 Organism: Metazoa; Chordata; Craniata; Vertebrata; Buteleostomi; Amphibia; Batrachia; Anura; Archeobatrachia; Bombinatoridae; Bombina.  
 OX NCBI\_TaxID=161274; [1]

SEQUENCE FROM N.A.

PT TISSUE=skin; Chen T., Farragher S., Bjourson A.J., Orr D.F., Rao P., Shaw C.; RT "Granular gland transcriptomes in stimulated amphibian skin secretions"; RT

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protein - protein search, using Bw model

on: September 20, 2005, 12:43:34 ; Search time 39 Seconds  
(without alignments)  
259.045 Million cell updates/sec

2: exact scope: US-10-692-299-2  
exact scope: 589  
ance: 1 MRGATRVSIMLLWTVSDCA.....CSRFPDGRYRCNSNDLKNINF 105  
ning table: BLOS0162

## ALIGNMENTS

THE JOURNAL OF CLIMATE

Minimum DB seq length: 0  
 Maximum DB seq length: 200000000  
 Post-processing: Minimum Match 0%, Maximum Match 100%  
 Listing first 45 summaries

Database : PIR:<sup>79:</sup>  
 1: PIR:<sup>\*</sup>

JCT188 -  
 REIC protein - human  
 C:Species: Homo sapiens (man)  
 C:Date: 04-Mar-2000 #sequence\_revision 04-Mar-2000 #text\_change 11-May-2000  
 C:Accession: JCT188  
 R:Tsugi, T.; Miyazaki, M.; Sakaguchi, M.; Inoue, Y.; Nambu, M.  
 Biochem. Biophys. Res. Commun. 268, 20-24, 2000  
 A:Title: A REIC gene shows down-regulation in human immortalized cells and hum  
 A:Reference number: JCT188; PMID:10622005

red. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

## SUMMARIES

C:Keywords: cardiac muscle; coiled coil; glyccoprotein; heart; tumor									
Result No.	Score	Query Match	Length	DB ID	Description				
1	100.5	17.1	350	2 JC7188	REIC protein - hum	Score 100.5;	DB 2;	Length 350;	
2	88.5	15.0	640	2 T08179	LRG5 protein - Ch1	Best Local Similarity 37.7%;	Pred. No. 0.0089;		
3	83	14.1	1101	2 T16840	hypothetical prote	Matches 26;	Mismatches 3;	Indels 11;	4
4	81	13.8	1964	2 T09059	noch4 - mouse	Conservative			
5	79	13.4	112	1 XLHU	colipase precursor				
6	77.5	13.2	473	2 A56175	adhesive plaque pr				
7	77	13.1	251	2 A56035	cysteine-rich prot				
8	75.5	12.8	1574	2 T13934	MEG6 protein - ra				
9	75	12.7	734	2 JC4861	ferrilin beta cha				
10	75	12.7	2318	2 S45306	ferrilin 3 protein -				
11	75	12.7	2531	2 T31070	noch homolog - se				
12	74	12.6	112	2 T15109	colipase precursor				
13	74	12.6	1620	2 T2783	hypothetical prote				
14	73	12.4	461	1 A35556	tumor necrosis fac				
15	73	12.4	3075	2 S14458	laminin alpha-1 ch				
16	72.5	12.3	643	2 T25473	hypothetical prote				
17	72.5	12.3	2871	2 A55567	fibrillin 1 - bovi				
18	72.5	12.3	3002	2 A47221	fibrillin 1 precur				
19	72	12.2	1639	1 MMFB2	laminin gamma-1 ch				
20	71.5	12.1	591	2 I48141	acroganrin - quine				
21	71.5	12.1	601	2 B36346	fibulin 1 precurso				
22	71.5	12.1	683	2 C36346	fibulin 1 precurso				
23	71.5	12.1	1178	1 A39804	thrombospondin pre				
24	71.5	12.1	1854	2 T13576	hypothetical prote				
25	71	12.1	286	2 S34665	collagen, cuticula				
26	71	12.1	593	1 GYHU	granulin precursor				
27	70.5	12.0	1847	2 T18308	probable vitelline				
28	70.5	12.0	2871	2 A55624	fibronectin-1 precur				
29	69.5	11.8	802	2 T24293	fibronectin-1 precur				

Query Match 15.0%; Score 88.5; DB 2; Length 640;  
 Best Local Similarity 31.6%; Pred. No. 0.24;  
 Matches 24; Conservative 5; Mismatches 24; Indels 23; Gaps 4;  
 C:Species: Mus musculus (house mouse)  
 C:Date: 11-Jun-1999 #sequence\_revision 11-Jun-1999 #text\_change 09-Jul-2004  
 C:Accession: T09059  
 R:Accession: L.; Mahairas, G.; Qin, S.; Abearn, M.E.; Dankers, C.; Lasky, S.; Loretz, C.; Sc  
 submitted to the EMBL Data Library, October 1997  
 A:Description: Sequence of the mouse major histocompatibility locus class III region.  
 A:Reference number: Z16543  
 A:Accession: T09059  
 A:Status: preliminary; translated from GB/EMBL/DDBJ  
 A:Molecule type: DNA  
 A:Residues: 1-1101 <GEN>  
 A:Cross-references: UNIPROT:Q22378; EMBL:U39644; NID:91049339; PID:AA4803  
 A:Experimental source: strain Bristol N2  
 C:Genetics:  
 A:Gene: CESP7T10E10.4  
 A:Introns: 93/2; 152/2; 191/3; 209/2; 283/3; 303/1; 399/3; 421/1; 440/1; 465/1; 547/3; 7  
 Query Match 14.1%; Score 83; DB 2; Length 1101;  
 Best Local Similarity 24.4%; Pred. No. 1.3;  
 Matches 32; Conservative 9; Mismatches 40; Indels 50; Gaps 6;  
 C:Keywords: Lipid digestion; lipid hydrolysis; pancreas  
 F:18-22/Domain: signal-terminal peptide #status Predicted <APP>  
 F:23-108/Product: colipase #status experimental <WAT>  
 F:109-112/Domain: amino-terminal propertide #status Predicted <CPP>  
 F:34-104; 40-56; 44-80; 45-78; 66-66/Diulfide bonds: #status Predicted <WAT>  
 F:69,72,75,76/Binding site: micellar substrate (Lys, Tyr, Tyr) #status predicted  
 A:Gene: CLPS  
 A:Cross-references: GDB:127277; OMIM:120105  
 A:Map position: 6pter-6p21.1  
 C:Superfamily: colipase  
 C:Keywords: Lipid digestion; lipid hydrolysis; pancreas  
 F:1-17/Domain: signal sequence #status Predicted <SIG>  
 F:18-22/Domain: amino-terminal propertide #status Predicted <APP>  
 F:23-108/Product: colipase #status experimental <WAT>  
 F:109-112/Domain: amino-terminal propertide #status Predicted <CPP>  
 F:34-104; 40-56; 44-80; 45-78; 66-66/Diulfide bonds: #status Predicted <WAT>  
 F:69,72,75,76/Binding site: micellar substrate (Lys, Tyr, Tyr) #status predicted  
 Query Match 13.4%; Score 79; DB 1; Length 112;  
 Best Local Similarity 28.4%; Pred. No. 0.5;  
 Matches 31; Conservative 9; Mismatches 45; Indels 24; Gaps 6;  
 C:Species: Mus musculus (house mouse)  
 C:Date: 11-Jun-1999 #sequence\_revision 11-Jun-1999 #text\_change 09-Jul-2004  
 C:Accession: T09059  
 R:Accession: L.; Mahairas, G.; Qin, S.; Abearn, M.E.; Dankers, C.; Lasky, S.; Loretz, C.; Sc  
 submitted to the EMBL Data Library, October 1997  
 A:Description: Sequence of the mouse major histocompatibility locus class III region.  
 A:Reference number: Z16543  
 A:Accession: T09059  
 A:Status: preliminary; translated from GB/EMBL/DDBJ  
 A:Molecule type: DNA  
 A:Residues: 1-1964 <ROR>  
 A:Cross-references: UNIPROT:P31695; EMBL:AF030001; NID:92564945; PID:92564947  
 C:Genetics:  
 A:Gene: noch4  
 A:Map position: 17  
 A:Introns: 22/1; 49/2; 148/1; 264/1; 305/1; 384/1; 436/1; 501/1; 539/1; 577/1; 618/1; 67  
 1679/3; 1729/1; 1761/3  
 C:Keywords: receptor; signal transduction  
 F:314-545/Domain: EGF homology <EGF>

RESULT 6	A:Title: Identification of high-molecular-weight proteins with multiple EGF-like motifs A:Reference number: Z14126; MUID:9836089; PMID:9693030
A56175	A:Status: preliminary; translated from GB/EMBL/DBBJ
adhesive plaque protein Mgfp2 precursor - Mediterranean mussel	A:Accession: T13954
C:Species: <i>Mytilus galloprovincialis</i> (Mediterranean mussel)	A:Molecule type: mRNA
C:Date: 27-Apr-1995 #sequence_revision 03-Oct-1995 #text_change 09-Jul-2004	A:Cross-references: 1-1574 <NRK>
C:Accession: A56175	A:Experimental source: strain Sprague-Dawley; brain
R:Inoue, K.; Takeuchi, Y.; Miki, D.; Odo, S.	C:Genetics:
J. Biol. Chem. 270, 6698-6701, 1995	A:Gene: MEGF6
A:Title: Muscular adhesive plaque protein gene is a novel member of epidermal growth factor-like genes	Query Match 12.8%; Score 75.5; DB 2; Length 1574;
A:Reference number: A56175; MUID:95204464; PMID:789612	Best Local Similarity 28.6%; Pred. No. 10;
A:Molecule type: mRNA	Matches 24; Conservative 6; Mismatches 33; Indels 21; Gaps 4;
A:Residues: I-473 <INO>	Qy 19 CAVITGAC----ERDVQGACTCCATISLWLRLMCTPLGRGEECHPGSHKVPFFKRR 73
C:Cross-references: UNIPROT:Q25434; GB:D43794; NID:9602767; PID:BA07852.1; PMID:d100843	Db 755 CHRVTECICLPPKPTKEDGAD--CPEGRWGLCQEQICPACERGASCNP----- 801
C:Keywords: duplication	Qy 74 KHTKTCPCPNLGSRFPDGRYRC 97
F:1-17/Domain: signal sequence #status predicted <Stg>	Db 802 ETGTCILCLPGFVGSRCQD---TCG 822
F:187-419/Domain: EGF homology <EGF>	RESULT 9
F:329-460/Domain: EGF homology <EGP>	JC4861
F:33, 36, 43, 56, 75, 382, 44, 455, 468, 473/Modif-ed site: 3', 4'-dihydroxyphenylalanine (Tyr) #	C:Species: Homo sapiens (man)
Query Match 13.2%; Score 77.5; DB 2; Length 473;	C:Accession: JC4861
Best Local Similarity 31.2%; Pred. No. 2.4;	C:Cross-references: UNIPROT:Q99965; GB:U38805; NID:9415118; PID:ADD04206.1; PMID:9415111
Matches 24; Conservative 11; Mismatches 23; Indels 19; Gaps 7;	C:Comment: This protein is an integral sperm membrane glycoprotein, and plays a role in the formation of the sperm head.
Qy 26 CERDVQGGTCCAAISLWLRLMCTPLGRGEBCH-POSHKVPFRKRKHTC---PCL 81	C:Superfamily: mouse meltrin alpha; disintegrin homology
Db 117 CERKV-CSNPNC-----KNNKGKCSPLGKTKYKTCSCGGYTG---RCEVHACKPNFCK 165	C:Keywords: glycoprotein, integrin binding, transmembrane protein
Qy 82 PNLLCSRFDPDGR--YRC 96	F:382-34/Product: fertillin beta chain #status predicted <NAR>
Db 166 NKGRC--FPDGKTKYK 180	F:382-467/Domain: disintegrin homology <DIS>
RESULT 7	F:448-450/Region: integrin binding #status predicted <TM>
A55035	F:486-708/Domain: transmembrane #status predicted <TM>
Cysteine-rich protein CRP1 - earthworm ( <i>Enchytraeus buchholzi</i> )	F:121,219,332,458,565/Binding site: carbohydrate #status predicted <Asn> (covalent)
C:Species: <i>Enchytraeus buchholzi</i>	A:Accession: JC4861
C:Date: 14-Nov-1994 #sequence_revision 03-Nov-1995 #text_change 09-Jul-2004	A:Status: preliminary
C:Accession: A55035; S5034	A:Molecule type: mRNA
R:Willuhn, J.; Schmitt-Wrede, H.P.; Wunderlich, F.	A:Residues: 1-734 <GUP>
J. Biol. Chem. 269, 24388-24691, 1994	A:Cross-references: 1-251 <WIL>
A:Title: cDNA cloning of a cadmium-inducible mRNA encoding a novel cysteine-rich, non-metallothionein protein	C:Accession: S45305
A:Reference number: A55035; MUID:95054230; PMID:792941	A:Status: preliminary
A:Status: preliminary	Query Match 12.7%; Score 75; DB 2; Length 734;
A:Molecule type: mRNA	Best Local Similarity 28.8%; Pred. No. 6.1;
A:Residues: 1-251 <WIL>	Matches 21; Conservative 7; Mismatches 29; Indels 16; Gaps 3;
C:Superfamily: ultra-high-sulfur keratin	Qy 15 TVSDCAVITGAC-----ERDVQCGAGTCACISLWLRLMCTPLGRGEBCHPGSHK 66
Query Match 13.1%; Score 77; DB 2; Length 251;	Db 401 TGDCAALGETCDIATCRFKAGSNCAEGPCCBNC1PMSKERNCRP---SFBC----- 452
Best Local Similarity 30.9%; Pred. No. 1.6;	Qy 67 VPSFRKRKHTCP 79
Matches 25; Conservative 7; Mismatches 45; Indels 4; Gaps 3;	Db 453 LPSYNGSSASC 465
Qy 17 SDCAVITGACERDVQGACTCCATISLWLRLMCTPLGRGEECHPGSHKVPFRKRKH 76	RESULT 10
Db 77 SQCKCEKGCKKG-CKEG-CCAPKGCVGGCGCKOKEKGCTKRCGTCGGV 133	S45306
Qy 77 TCPCLPNLGSRFDPDGRYRC 97	C:Species: <i>Mus musculus</i> (house mouse)
Db 134 DCPGPSCCKB-GDCKVNC 153	C:Accession: S45306
RESULT 8	R:Lardelli, M.; Dahlstrand, J.; Lendahl, U.
MEGF6 protein - rat	C:Date: 20-Feb-1995 #sequence_revision 20-Feb-1995 #text_change 09-Jul-2004
C:Species: <i>Rattus norvegicus</i> (Norway rat)	R:Lardelli, M.; Dahlstrand, J.; Lendahl, U.
C:Accession: T13954	Mech. Dev. 46, 123-136, 1994
C:Accession: T13959	A:Title: The novel Noch homologue mouse Notch 3 lacks specific epidermal growth factor-
R:Nakayama, M.; Nakajima, D.; Nagase, T.; Nomura, N.; Ohara, O.	A:Accession: S45306; MUID:95001556; PMID:7918097
Genomics 51, 27-34, 1998	A:Status: preliminary
A:Molecule type: mRNA	A:Molecule type: mRNA

A;Residues: 1-2318 <LAR>  
 A;Cross-references: UNIPROT:Q61992; EMBL:XP\_4760; NID:9483580; PIDN:CAA52776.1; PMID:94835  
 C;Superfamily: notch protein; ankyrin repeat homology; EGF homology  
 P;163-195/Domain: EGF homology <EGF1>  
 P;174-505/Domain: EGF homology <EGF2>  
 P;854-885/Domain: EGF homology <EGF2>  
 P;1839-1871/Domain: ankyrin repeat homology <AN1>  
 P;1936-1940/Domain: ankyrin repeat homology <AN2>  
 P;1938-1950/Domain: ankyrin repeat homology <AN3>  
 P;1939-1971/Domain: ankyrin repeat homology <AN4>  
 P;1972-2004/Domain: ankyrin repeat homology <AN5>

Query Match 12.7%; Score 75; DB 2; Length 2318;  
 Best Local Similarity 28.1%; Pred. No. 16;  
 Matches 25; Conservative 5; Mismatches 25; Indels 34; Gaps 5;

Qy 19 CAVITGACERDVOGAGTCCTAISIWLGRMCTPLGREGEEC----- 60  
 Db 12879 CERVARS-RELQGPVGIFCQQT--ARGRCACPGGLSPCRVSRASPAGTNAASCASA 1343

Qy 61 --HPGS---HRCPPEFRKHHTCPCLP 82  
 Db 1344. PCLGGGSCLPVQSYPEFR----CVCAP 1366

RESULT 11  
 T31070  
 noth homolog - sea urchin (*Lyttechinus variegatus*)  
 C;Species: Lyttechinus variegatus (variegated urchin)  
 C;Date: 22-Oct-1999 #sequence\_revision 22-Oct-1999 #text\_change 31-Jan-2000  
 C;Accession: T31070  
 R.Sherwood, D.R.; McClay, D.R.  
 Development 124, 3363-3374, 1997  
 A;Title: Identification and localization of a sea urchin Notch homologue: insights into  
 A;Accession number: Z20966; MUID:97454256; PMID:9310331  
 A;Status: preliminary; translated from GB/EMBL/DDBJ  
 A;Molecule type: mRNA  
 A;Cross-references: EMBL:AF00634; NID:92570350; PID:92570351; PIDN:AA882088.1  
 C;Superfamily: notch protein; ankyrin repeat homology; EGF homology

Query Match 12.7%; Score 75; DB 2; Length 2531;  
 Best Local Similarity 29.9%; Pred. No. 17;  
 Matches 23; Conservative 8; Mismatches 32; Indels 14; Gaps 5;

Qy 22 ITGACERDVOGAGTCCTAISIWLGRMCTPLGREGEECIFGSHKVPFFRKHHTCP 79  
 Db 120 VDNVCKLEPPCQNQGTCTTSLWDYC-FCTP-ANTGENCTDDNHCY----SNP 168

Qy 80 CLPNLCSRFEPDGRYRC 96  
 Db 169 CLNGAVCTSSSDG-YSC 184

RESULT 12  
 T51909  
 colipase precursor - rat  
 C;Alternate names: procolipase  
 C;Species: *Rattus norvegicus* (Norway rat)  
 C;Date: 26-Jul-1996 #sequence\_revision 26-Jul-1996 #text\_change 09-Jul-2004  
 C;Accession: 151909; A34623  
 R;Payne, R.M.; Sims, H.F.; Jennings, M.L.; Lowe, M.E.  
 Am. J. Physiol. 266, G914-G921, 1994  
 A;Title: Rat pancreatic lipase and two related proteins: enzymatic properties and mRNA  
 A;Reference number: 151909; MUID:94262798; PMID:8203536  
 A;Accession: 151909  
 A;Status: preliminary; translated from GB/EMBL/DDBJ  
 A;Molecule type: mRNA  
 A;Residues: 1-112 <PA>  
 A;Cross-references: UNIPROT:P17084; GB:M58370; NID:9203504; PIDN:AAA20505.1; PMID:9203505  
 R;Wicker, C.; Puigserver, A.  
 Biochem. Biophys. Res. Commun. 167, 130-136, 1990

RESULT 13  
 T27283  
 hypothetical protein Y64G10A.f - *Caenorhabditis elegans*  
 C;Species: *Caenorhabditis elegans*  
 C;Date: 15-Oct-1999 #sequence\_revision 15-Oct-1999 #text\_change 15-Oct-1999  
 C;Accession: T27283  
 R;Ainscough, R.  
 Submitted to the EMBL Data Library, September 1999  
 A;Reference number: Z20336  
 A;Accession: T27283  
 A;Status: preliminary; translated from GB/EMBL/DDBJ  
 A;Molecule type: DNA  
 A;Residues: 1-1620 <NTL>  
 A;Cross-references: EMBL:AU110498; NID:61542303; PIDN:CA854471.1; CESPB:Y64G10A.f  
 A;Experimental source: clone Y64G10A  
 C;Genetics:  
 A;Gene: CESPB:Y64G10A.f  
 A;Introns: 77/1; 116/1; 198/1; 282/1; 365/1; 425/1; 466/1; 548/1; 559/1; 601/1; 625/1; 71  
 Query Match 12.6%; Score 74; DB 2; Length 1620;  
 Best Local Similarity 27.5%; Pred. No. 15;  
 Matches 22; Conservative 4; Mismatches 16; Indels 38; Gaps 4;  
 Qy 16 VSDCAVITGACERDVOGAG-----TCCAAISIWLGRMCTPLGREGEECIFGSHKVP 68  
 Db 1114 VARCDVITGEC----RCPAGWTPDQTS-----PLGRHGECC----- 1148

Qy 69 FERKRKHHTCPCLPNLICSR 88  
 Db 1149 -----RHSCOCSSNGASCDR 1162

RESULT 14  
 A35356  
 tumor necrosis factor receptor 2 precursor [validated] - human  
 N;Alternate names: 75k tumor necrosis factor receptor; TNF receptor type 2  
 C;Species: *Homo sapiens* (man)  
 C;Date: 10-Sep-1999 #sequence\_revision 10-Sep-1999 #text\_change 09-Jul-2004  
 C;Accession: A35356; A36475; A848416; A36007; A23666; B35010; I38094  
 R;Smith, C.A.; Davis, T.; Anderson, D.; Solam, L.; Beckmann, M.P.; Jerzy, R.; Dower, S.K.  
 Science 248, 1019-1023, 1990  
 A;Title: A receptor for tumor necrosis factor defines an unusual family of cellular and  
 A;Reference number: A35356; MUID:90260639; PMID:2160731  
 A;Accession: A35356  
 A;Status: preliminary  
 A;Molecule type: mRNA  
 A;Residues: 1-61 <SMI>  
 A;Cross-references: UNIPROT:P20333; GB:M32315; NID:9189185; PIDN:AA559929.1; PMID:9189186

R.Kohno, T.; Brewer, M.T.; Baker, S.L.; Schwartz, P.E.; King, M.W.; Hale, K.K.; Squires, Proc. Natl. Acad. Sci. U.S.A. 87, 8331-8335, 1990  
 A;Title: A second tumor necrosis factor receptor gene product can shed a naturally occur  
 A;Reference number: A36475; MUID:91045991; PMID:2172983  
 A;Status: preliminary  
 A;Molecule type: mRNA  
 A;Residues: 1-195; 'R', 197-461 <KOH>  
 A;Cross-references: GB:M55934; GB:M38549; NID:9339757; PIDN:AAA36755.1; PID:9339758  
 Cytokine 2, 231-237, 1990  
 A;Title: Two human TNF receptors have similar extracellular, but distinct intracellular,  
 A;Reference number: A48416; MUID:91370690; PMID:1966549  
 A;Accession: A48416  
 A;Status: preliminary  
 A;Molecule type: mRNA; protein  
 A;Residues: 23-461 <DEN>  
 A;Cross-references: GB:S63368; NID:9235648; PIDN:AA19824.1; PID:9235649  
 A;Note: sequence extracted from NCBI backbone (NCBIN:633368, NCBIPI:633371)  
 R.Heller, R.A.; Song, K.; Onasch, M.A.; Fischer, W.H.; Chang, D.; Ringold, G.M.  
 Proc. Natl. Acad. Sci. U.S.A. 87, 6151-6155, 1990  
 A;Title: Complementary DNA cloning of a receptor for tumor necrosis factor and demonstra  
 A;Reference number: A36007; MUID:90349572; PMID:2169946  
 A;Accession: A36007  
 A;Status: preliminary  
 A;Molecule type: mRNA  
 A;Residues: 116-140; 'P', 142-195; 'R', 197-362; 'T', 364-461 <HEL>  
 A;Cross-references: GB:M35857; NID:9339751; PIDN:AA63262.1; PID:9339752  
 R.Letscher, H.; Schlaeger, E.J.; Lahn, H.W.; Pan, Y.C.B.; Leiblauer, W.; Brockhaus, M.  
 J. Biol. Chem. 265, 20131-20138, 1990  
 A;Title: Purification and partial amino acid sequence analysis of two distinct tumor nec  
 A;Reference number: A23666; MUID:91056048; PMID:2173696  
 A;Accession: A23666  
 A;Status: preliminary  
 A;Molecule type: protein  
 A;Residues: 23-40; 65-69; 136-141; 300-306 <LOE>  
 R.Engelmann, H.; Novick, D.; Wallach, D.  
 J. Biol. Chem. 265, 1531-1536, 1990  
 A;Title: Two tumor necrosis factor-binding Proteins purified from human urine. Evidence  
 A;Reference number: A35010; MUID:90110215; PMID:2153136  
 A;Accession: B35010  
 A;Status: preliminary  
 A;Molecule type: protein  
 A;Residues: 27-31 <ENG>  
 R.Kuhnert, P.; Kemper, O.; Wallach, D.  
 Gene 150, 381-386, 1994  
 A;Title: Cloning, sequencing and partial functional characterization of the 5' region of  
 A;Reference number: 138094; MUIR:95121934; PMID:7821811  
 A;Accession: I38094  
 A;Status: preliminary  
 A;Molecule type: DNA  
 A;Residues: 1-37 <RES>  
 A;Cross-references: EMBL:X80021; NID:9666044; PIDN:CAA56324.1; PID:9825701  
 C;Genetics:  
 A;Gene: GDB:TNFR2  
 A;Cross-references: GDB:125914; OMIM:191191  
 A;Map position: 1p36.2-1p36.2  
 A;Introns: 26/3  
 A;Note: the list of introns is incomplete  
 C;Superfamily: tumor necrosis factor receptor type 2 (TNFR2); NGF receptor repeat homolog  
 C;Keywords: duplication; glycoprotein; receptor; transmembrane protein  
 F;1-22/Domain: signal sequence #status predicted <SIG>  
 F;2-3/4-16/Product: tumor necrosis factor receptor 2 #status experimental <WAT>  
 A;Note: NGF receptor repeat homology <NG1>  
 F;4-0-76/Domain: NGF receptor repeat homology <NG1>  
 F;7-8-119/Domain: NGF receptor repeat homology <NG2>  
 F;1-20-162/Domain: NGF receptor repeat homology <NG3>  
 F;1-64-201/Domain: NGF receptor repeat homology <NG4>  
 F;2-62-279/Domain: transmembrane #status predicted <INT>  
 F;280-461/Domain: intracellular #status predicted <INT>  
 F;171,193/Binding site: carbohydrate (Asn) (covalent) #status predicted  
 Query Match Score 73; DB 1; Length 461;  
 Best Local Similarity 29.5%; Pred. No. 6.6%;

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F;1362-1400/Domain: laminin-type EGF-like homology #status atypical <LE17>
F;1403-1449/Domain: laminin-type EGF-like homology <LE18>
F;1452-1506/Domain: laminin-type EGF-like homology <LE19>
F;1509-1553/Domain: laminin-type EGF-like homology <LE20>
F;1554-2125/Domain: I/I, heptad repeats <DOM2>
F;2116-2120/Region: cell adhesion #status predicted
F;2126-3075/Domain: G <DOMG>
F;2142-2300/Domain: laminin G repeat homology <LG1>
F;2329-2484/Domain: laminin G repeat homology <LG2>
F;2510-2676/Domain: laminin G repeat homology <LG3>
F;2534-2536/Region: cell attachment (R-G-D) motif
F;2739-2888/Domain: laminin G repeat homology <LG4>
F;2916-3073/Domain: laminin G repeat homology <LG5>
F;38-164, 555, 665, 763, 801, 838, 926, 952, 1045, 1407, 1579, 1596, 1678, 1689, 1698, 1717, 1804, 1894, 1
F;297-305/Disulfide bonds: #status predicted
F;297-305/Disulfide bonds: #status predicted

Query Match 12.4%; Score 73; DB 2; Length 3075;
Best Local Similarity 23.0%; Pred. No. 32;
Matches 23; Conservative 10; Mismatches 35; Indels 32; Gaps 4;
Qy 19 CAVITGACERDVQGAGTCATSLWLRGLRMCTPL----GREGEECH----P 62
Db 1056 CDVVTGHCQCKSKFGGRACDQCSLGYRDFPPDCVPCDCDLRGTSGDACNLEQGLCGCVER 1115

Qy 63 GSHKVPFFRKXHHTCPCLPNL---CSRFPDGRYRCMSD 99
Db 1116 GA-----CPCKENVFGPQNECRGTFALRAD 1142

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